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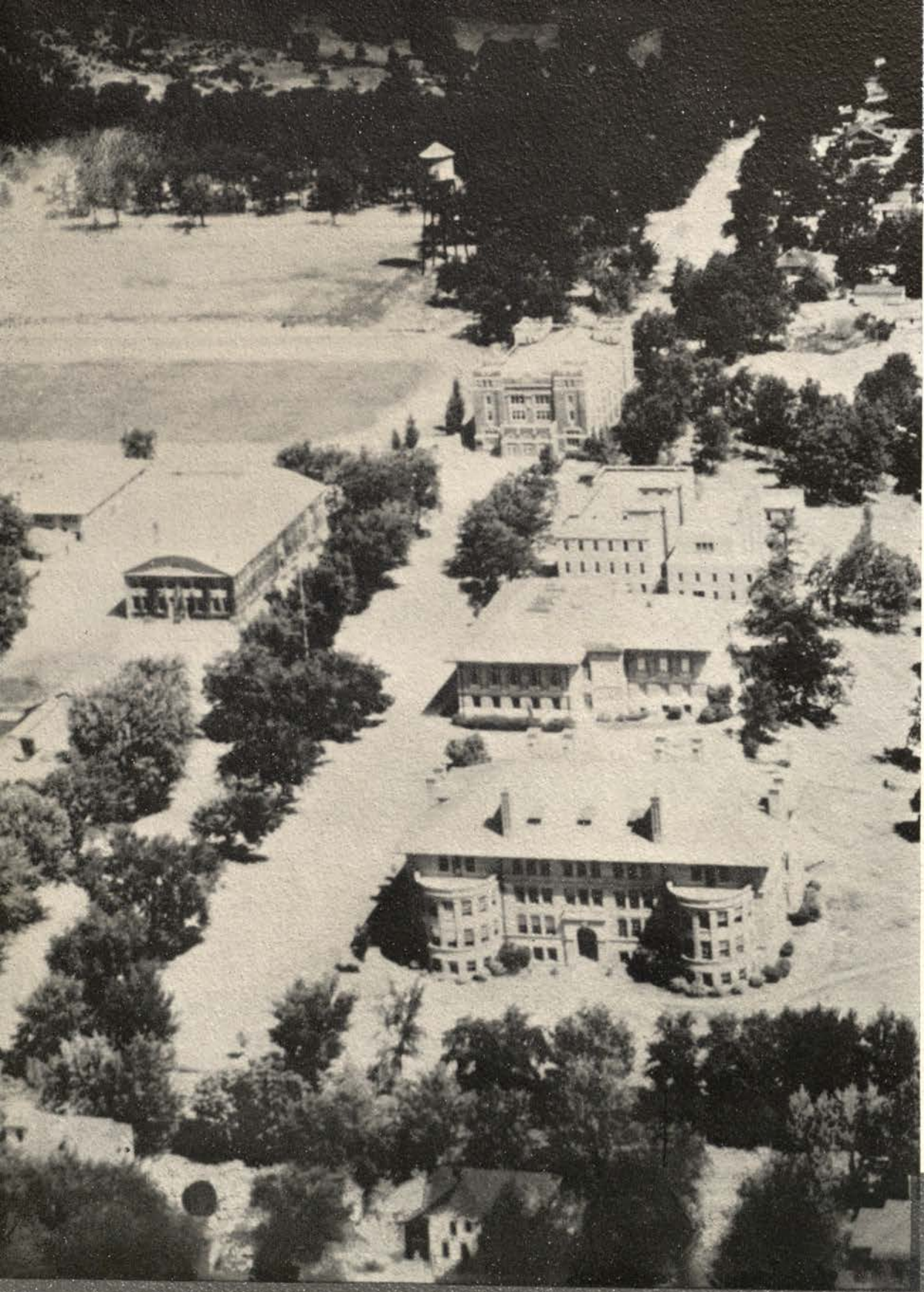


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THE 1935 ROLLAMO

THE
ALL-SCHOOL



EDITION

PUBLISHED BY THE
MISSOURI SCHOOL OF MINES
AND METALLURGY

ROLLA, MISSOURI



CHARLES LAURENCE DAKE

In Memoriam

Charles Laurence Dake, April 2, 1883—September 3, 1934

The many friends and associates of Doctor Charles Laurence Dake were greatly shocked upon learning of his sudden death from cerebral hemorrhage, at Denver, Colorado, September 3, 1934. Doctor Dake was on his way home to Rolla, after spending most of the summer in the vicinity of Cody, Wyoming, working out some of the details of the Hart Mountain Overthrust, which he discovered in 1916. The work was part of a project sponsored by the Geological Society of America under the Penrose bequest.

He had not been in the best of health for several years past and the summer's strenuous work in a region of high altitude may have been responsible for his death, especially since in his tremendous enthusiasm for his work he often drove himself almost to the point of exhaustion.

Professor Dake was born in Chaseburg, Wisconsin. The son of a carpenter, in his early years he too, started to learn this trade, but after completing his high school course decided to enter the teaching profession. He spent two years at the River Falls State Normal School and then entered the University of Wisconsin at Madison, receiving the A. B. degree in 1911 and the A. M. degree in 1912. In 1922 he received the degree of Doctor of Philosophy from Columbia University, New York City.

In the fall of 1912 Doctor Dake began his teaching career as an instructor in geology at Williams College, Williamstown, Massachusetts. The following year he was appointed Assistant Professor of Geology and Mineralogy at the Missouri School of Mines and Metallurgy. He was made Associate Professor in 1918 and Professor and Head of the Department in 1921, the position he held at the time of his death. He obtained leave of absence in 1917-18 and spent the year in commercial work in the mid-continent oil fields and in Utah, Arizona, and New Mexico. He was granted leave of absence a second time in 1920-21, when he attended Columbia University, and again in 1930-31 when he was employed by the Sinclair Company.

Doctor Dake was primarily a teacher. His greatest contribution to geology came from the classroom. From his classes emerged a large number of men in whom he had instilled a portion of his own vigorous enthusiasm for the work. Many of these men whom he started on their careers are today in positions of responsibility. In his teaching he had very little tolerance for the student who loafed on the job. He expected every man to exhibit the same interest and industry which he himself possessed, particularly if the man had elected geology for a major subject. In the classroom his manner of presentation was clear and forceful and his students soon learned that it was not enough to repeat what had been heard in class or read in a textbook.

In his practical work he was no less thorough than in the classroom. His work for the Missouri Geological Survey won for him the reputation of being one of the outstanding students of the stratigraphy of the lower Paleozoic formation of the Mississippi Valley. His efforts in practical work and research resulted in some thirty contributions to technical journals, two volumes of the Missouri Geological Survey, and a bulletin of the School of Mines and Metallurgy.

Doctor Dake was a member of Acacia, Gamma Alpha, Phi Beta Kappa, Sigma Xi, Phi Kappa Phi, A. I. M. & M. E., Geological Society of America, American Association for the Advancement of Science, and several other organizations.

Thus we mark the passing of a man prominent in the geologic profession. The achievements, briefly mentioned, are but a few mile posts in a distinguished career, cut short by an untimely death. What he did in life is easily told but what he was is difficult to express, even for those who knew him best. Of this we are sure, he was a man of broad culture. Primarily a scientist, he was nevertheless highly appreciative of the beauties in nature, literature, art, and music. To his scientific interest in and study of geology he brought the imagination of the poet and the mind and grasp of the philosopher.

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DEDICATION

THE 1935 Rollamo departs from the usual custom of dedicating the book to one field of engineering. An engineer's education cannot be completed in one department. He must have a general knowledge plus the specialized knowledge of the field he chooses.

Thus we dedicate this book to all the departments of the school, as it is through the co-operation of all that we obtain the knowledge necessary to carry on our chosen careers.



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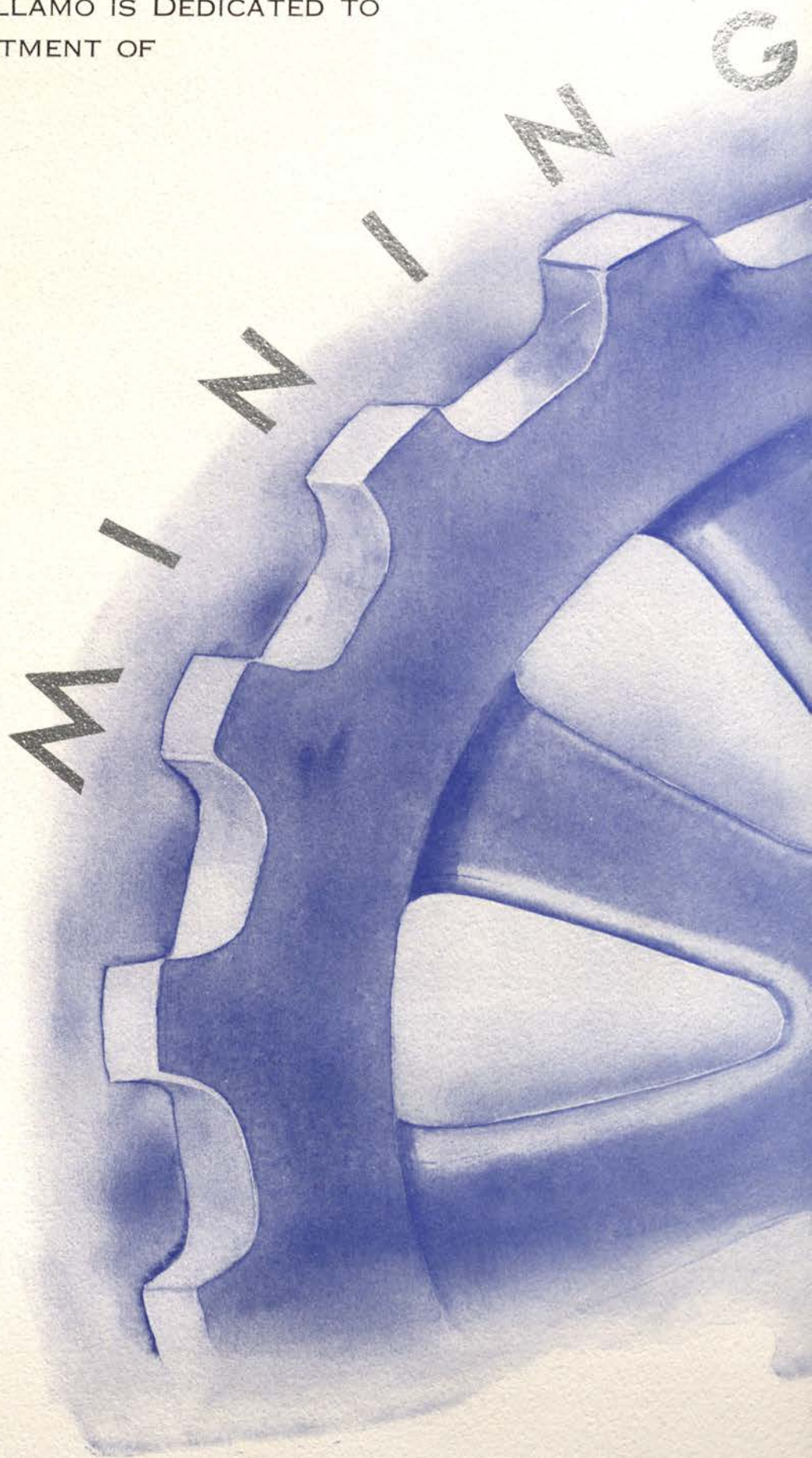


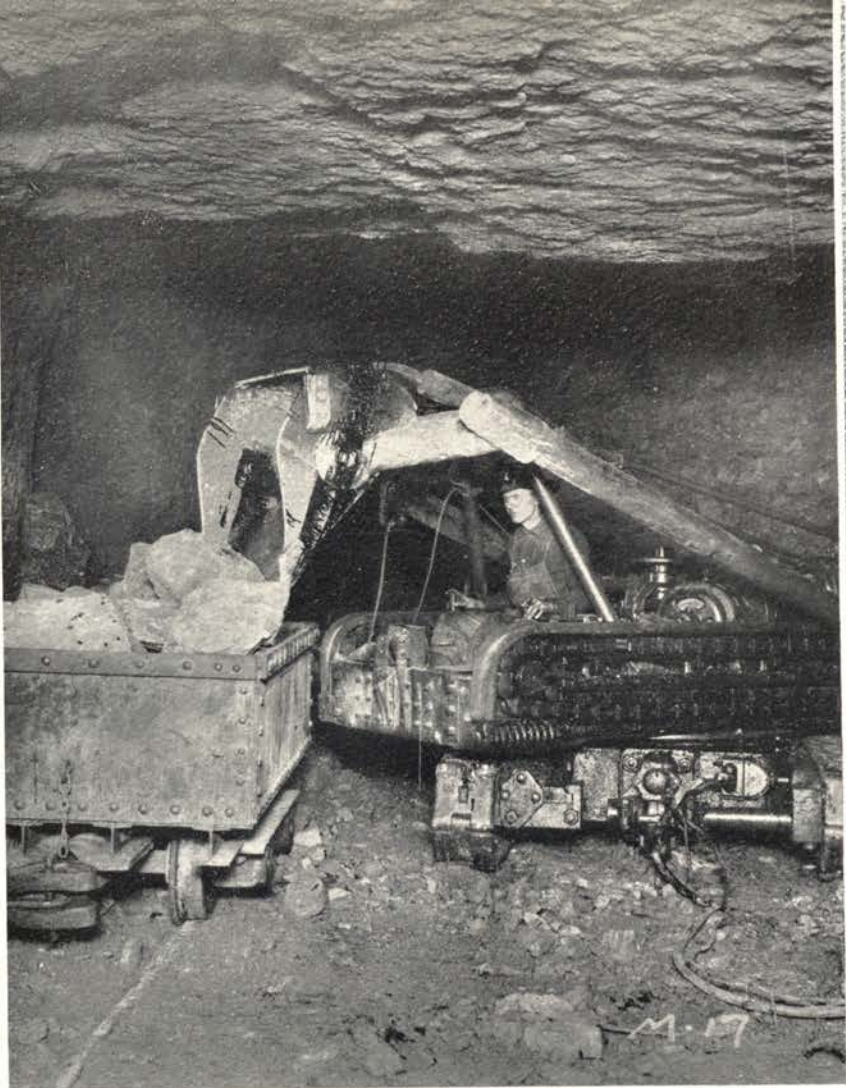


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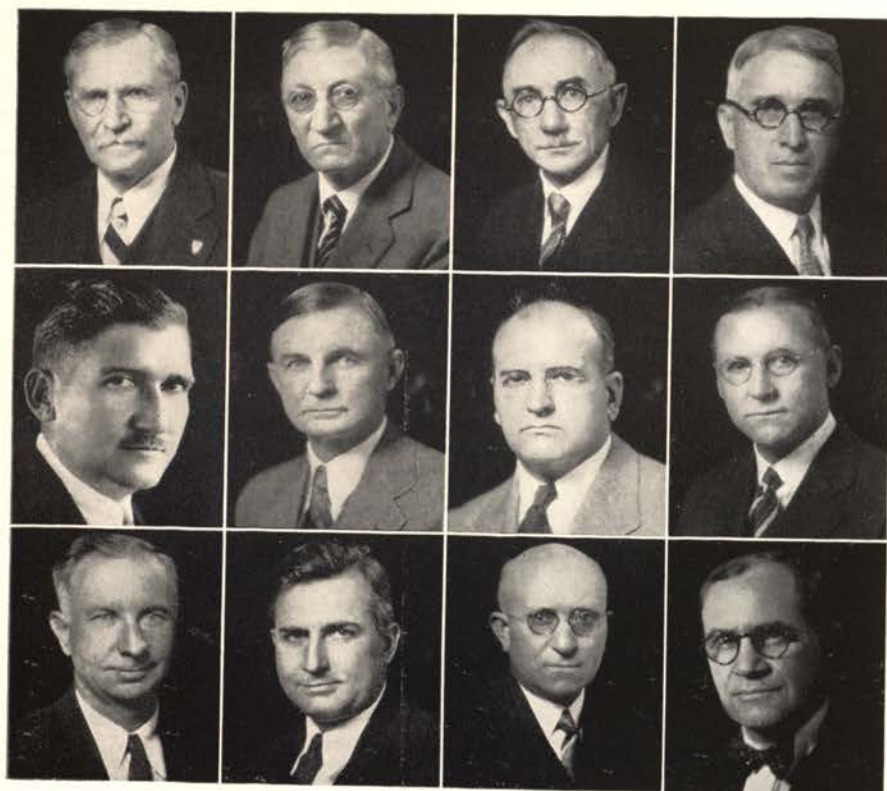




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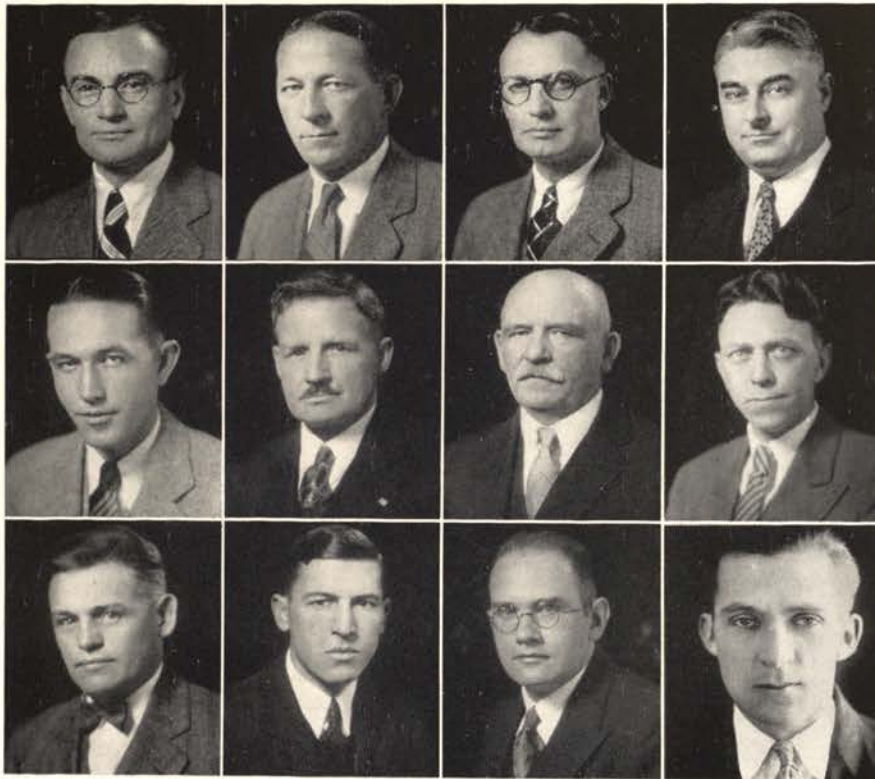
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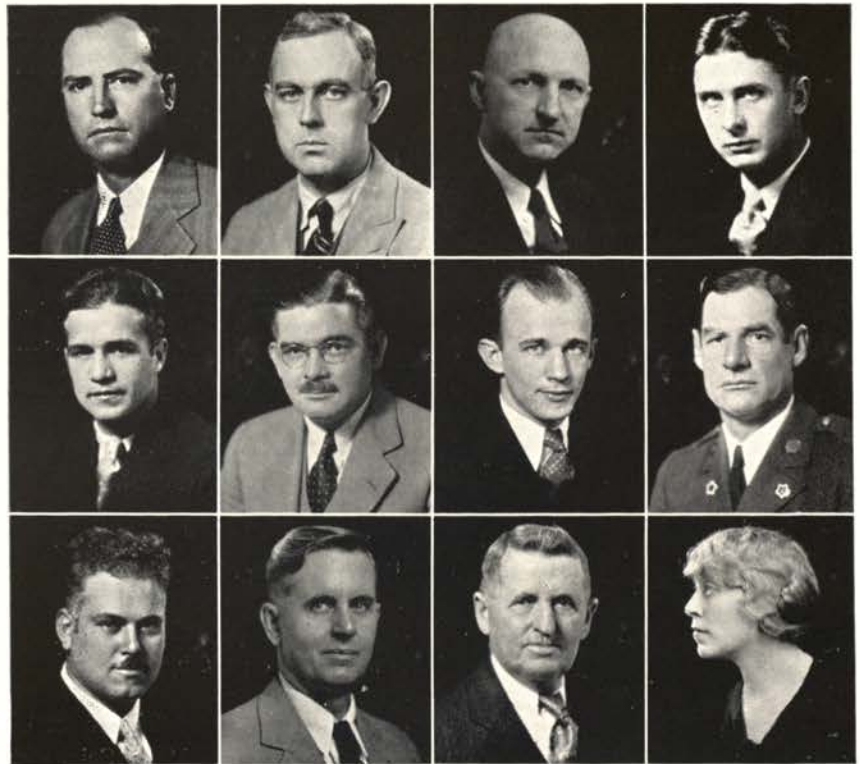
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Petroleum

High speed motor traffic has increased the consumption of oil and gasoline. The Petroleum Engineer must meet this increased demand by better methods of refining and development of our resources.

The latter is most important, for in a properly developed field there is no waste, and thus we use our resources to the utmost.

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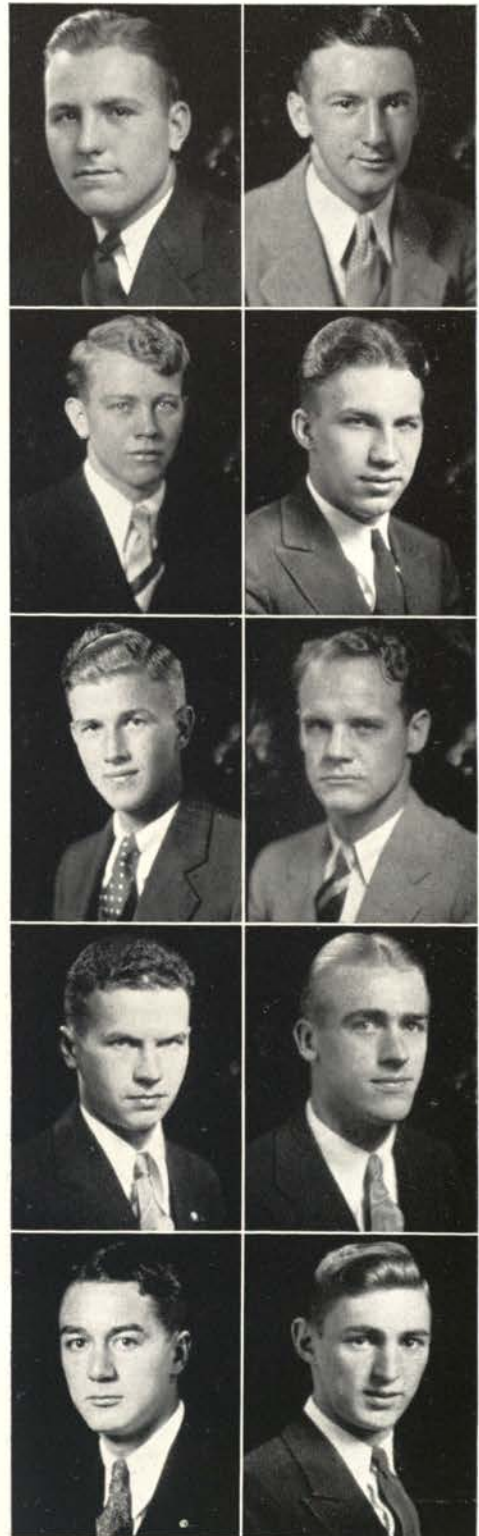
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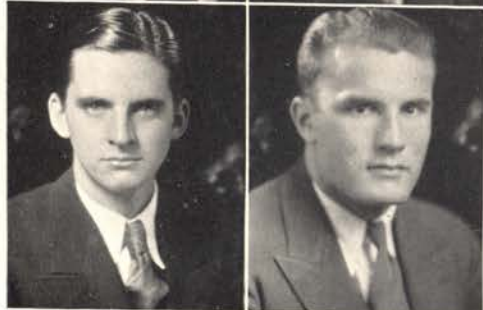


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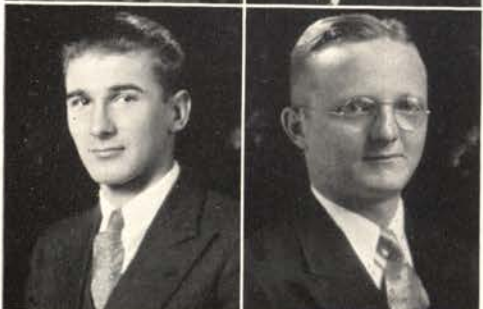


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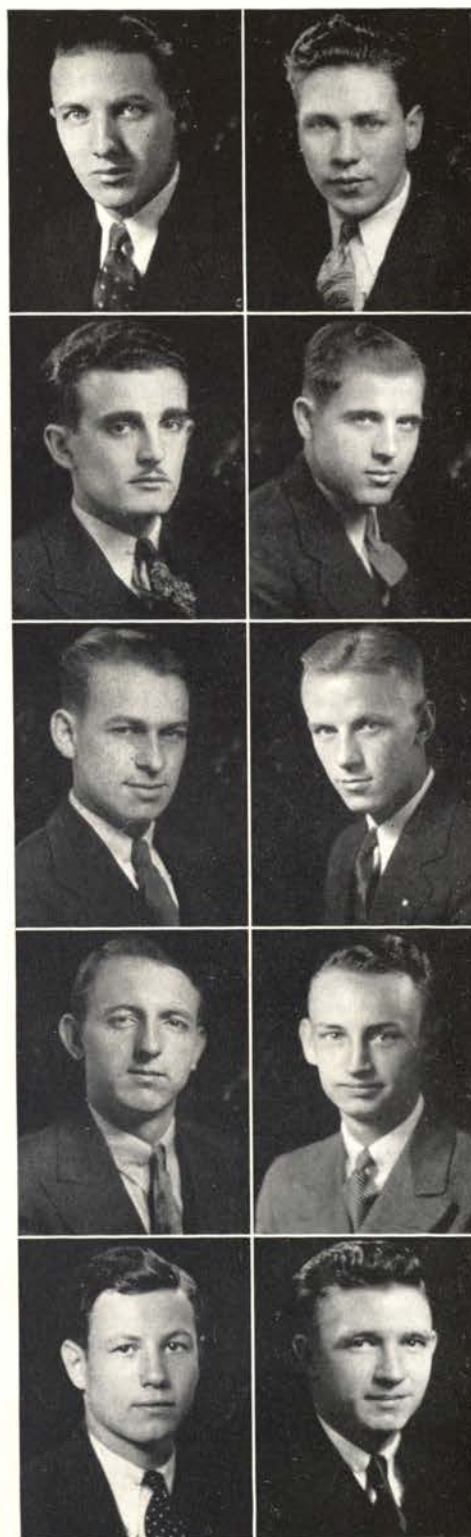
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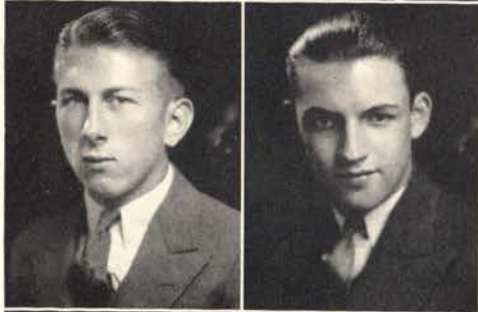
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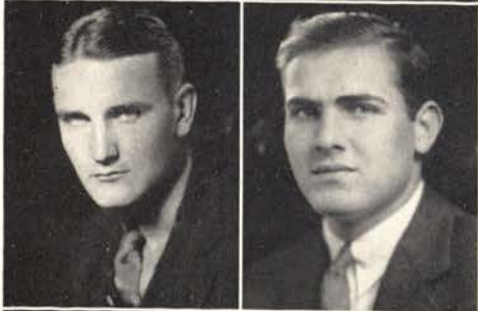
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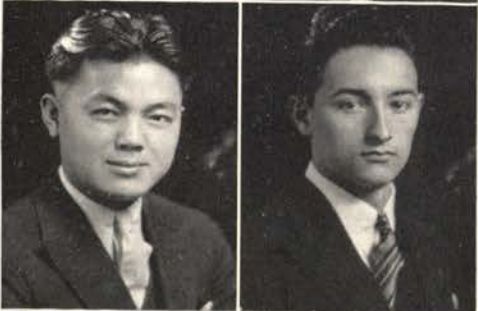
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MECHANICAL ENGINEERING
Independent, A. S. M. E.

MORRIS W. TURKEN - - - - - *St. Louis, Mo.*

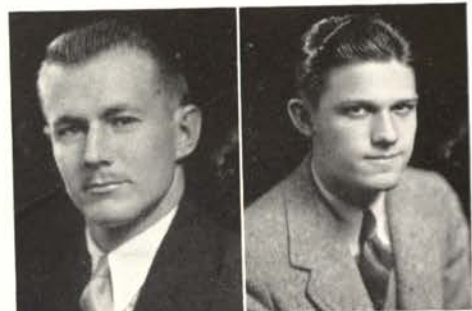
CIVIL ENGINEERING
Independent, Alpha Psi Omega, A. S. C. E., Miner Board,
Rollamo Board

WILLIAM G. TWYMAN - - - - - *Dayton, Ohio*

CERAMIC ENGINEERING
Sigma Nu, Athletic Association, Orton Society

DAN WEISSMAN - - - - - *St. Louis, Mo.*

CIVIL ENGINEERING
Independent, A. S. C. E.



SENIOR

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CIVIL ENGINEERING
Triangle, A. S. C. E.

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MECHANICAL ENGINEERING
Independent

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CHEMICAL ENGINEERING
Independent, Epsilon Pi Omicron

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MINING ENGINEERING
Independent

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MINING ENGINEERING
Kappa Sigma

MAX E. EDGAR - - - - - *Rolla, Mo.*
CIVIL ENGINEERING
Independent, A. S. C. E.

EDWARD H. FRAUENFELDER - - - *Clayton, Mo.*
CERAMIC ENGINEERING
Sigma Nu, Orton Society, Athletic Association

OTTO GELDMACHER - - - - *St. Louis, Mo.*
ELECTRICAL ENGINEERING
Independent, A. I. E. E.

WILLIAM G. GRAFF - - - - *St. Louis, Mo.*
ELECTRICAL ENGINEERING
Independent, A. I. E. E.

ELMER KIRCHOFF - - - - *East St. Louis, Ill.*
CIVIL ENGINEERING
Independent, Football Captain '33, Basketball '30, '31, '32

HENRY J. KOHLER - - - - *St. Louis, Mo.*
MECHANICAL ENGINEERING
Independent, A. S. M. E.

HARRY H. KOMM - - - - - *St. Louis, Mo.*
ELECTRICAL ENGINEERING
Independent, A. I. E. E.

MILTON F. LAGEMANN - - - - *St. Louis, Mo.*
METALLURGY
Kappa Alpha

WILBUR A. PETERS - - - - - *Alton, Ill.*
METALLURGY
Independent, Phi Kappa Phi



THE CLASS OF 1936

OFFICERS

PEEBLES	-	-	-	-	-	-	-	-	<i>President</i>
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PRANGE	-	-	-	-	-	-	-	-	<i>Secretary</i>
SCHWALBERT	-	-	-	-	-	-	-	-	<i>Treasurer</i>

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Breckenridge, Mo.

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Lancaster, Wis.

AITTAMA, J. W.
Springfield, Mo.

ALPER, ALBERT
St. Louis, Mo.

ARNOLD, F. W.
St. Louis, Mo.

BAKER, W. A.
Hammond, Mo.

BALKE, J. P.
Clinton, Mo.

BALLARD, T. W.
Rolla, Mo.

BARROW, C. W.
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BAXTER, T. L.
Pinkneyville, Ill.

BAXTER, W. M.
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BOCK, H. T.
Cape Girardeau, Mo.

BOMMER, T. J.
Bourbon, Mo.

BRANSTETTER, P. C.
Mexico, Mo.

BRIGHT, W. E.
St. Louis, Mo.

CAMPBELL, J. F.
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CARDOSI, L. A.
St. Louis, Mo.

CHAPMAN, R. T.
Rolla, Mo.

CLANTON, J. R.
Forest City, Mo.

CLARKE, D. V.
Houston, Mo.

COLLINS, C. G.
Lockwood, Mo.

COMPTON, G. E.
St. Louis, Mo.

DAILY, A. E.
St. Louis, Mo.

DAILY, E. J.
Rolla, Mo.

DENNIS, W. E.
Valley Park, Mo.

DONNELLY, W. L.
Kansas City, Mo.

EGGLESTON, D. A.
Kansas City Mo.

FAGER, O. H.
St. Louis, Mo.

FISHER, R. L.
St. Louis, Mo.

FISS, E. C.
Rolla, Mo.

FOLSOM, W. G.
Washington, Mo.

GRAFFT, L. E.
Rolla, Mo.

GRASSMUCK, E. A.
Ferguson, Mo.

GREEN, M. E.
Calhoun, Mo.

GRIMM, DONALD
Ferguson, Mo.

GRIMM, GERALDINE
Rolla, Mo.

HALL, J. H.
Newark, N. J.

HANSON, K. O.
St. Louis, Mo.

HARRIS, C. H.
Hannibal, Mo.

HERMANN, A. K.
St. Louis, Mo.

HILLMEYER, F. L.
Webster Groves, Mo.

HOENER, A. J.
Webster Groves, Mo.

HOUSEKNECHT, P. D.
Batavia, N. Y.

HUBBARD, J. R.
Rolla, Mo.

JOHNSON, MARTIN
Mountain City, Tenn.

JONES, W. T.
St. Louis, Mo.

MCCARRON, D. F.
St. Louis, Mo.

MCCAW, JACK
Rolla, Mo.

MCGREGOR, J. L.
Rolla, Mo.

MACHALEK, C. W.
St. Louis, Mo.

MASSARO, T. V.
Springfield, Ill.

MATHES, M. F.
Overland, Mo.

MATTEI, P. F.
St. Louis, Mo.

MENEFEE, J. H.
Jefferson City, Mo.

MEYER, L. W.
St. Louis, Mo.

MICHEL, H. F.
Edwardsville, Ill.

MILLICE, C. T., JR.
Mascot, Tenn.

MITCHELL, C. A.
Morris, Ill.

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PATTEN, T. M.
Chicago, Ill.

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Dayton, Ohio.

PLUMMER, NEIL
Canon City, Colo.

PRANGE, R. L.
St. Louis, Mo.

RASOR, J. P.
Los Angeles, Cal.

REED, E. H.
Jefferson Barracks, Mo.

REINMILLER, W. F.
Joplin, Mo.

RODMAN, W. K.
Kirkwood, Mo.

ROES, T. A.
St. Louis, Mo.

ROY, E. A.
Rolla, Mo.

RUWWE, J. W.
St. Louis, Mo.

SCHNEIDER, R. E.
St. Louis, Mo.

SCHWAB, F. A.
Joplin, Mo.

SCHWALBERT, W. H.
Clayton, Mo.

SHAMBAUGH, S. R.
Danville, Ill.

SHEPPARD, J. J.
St. Louis, Mo.

SIMMONS, R. W.
Batavia, N. Y.

SMART, M. K.
Springfield, Mo.

SMITH, E. L.
Jackson, Mo.

SPAHR, M. R.
Webster Groves, Mo.

SPITZER, E. J.
St. Louis, Mo.

STRIKER, R. H.
St. Louis, Mo.

STURZKE, J. F.
St. Louis, Mo.

SULLIVAN, W. L., JR.
Ferguson, Mo.

TEUBERT, E. A.
Staunton, Ill.

TURK, J. C.
Springfield, Mo.

VINCENT, J. A.
East St. Louis, Ill.

WALKER, W. E.
Cape Girardeau, Mo.

WOERHEIDE, A. E. JR.
St. Louis, Mo.

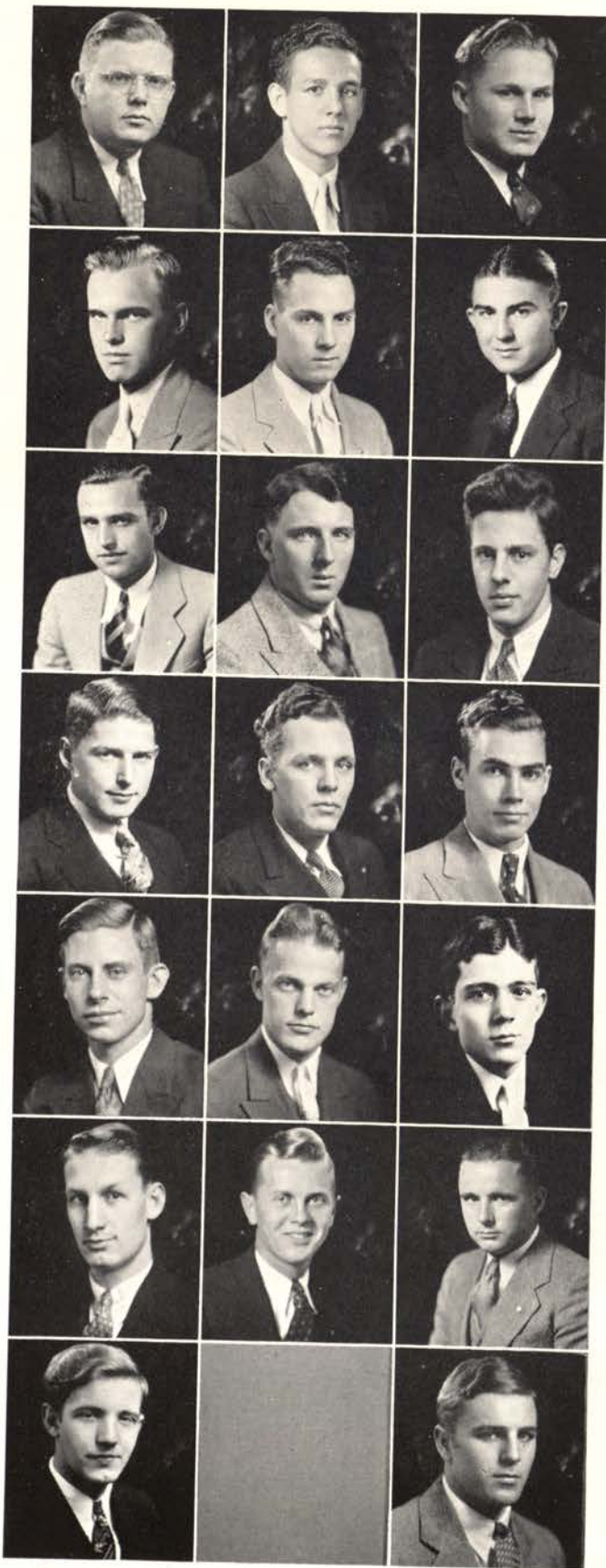
WOMMACK, T. W.
Rolla, Mo.

WORSECK, A. L.
St. Louis, Mo.

WRIGHT, J. W.
Webster Groves, Mo.



JUNIOR



Aittama
Arnold
Baker

Baxter
Bommer
Clanton

Compton
Daily
Dennis

Eggleston
Fagar
Fisher

Fiss
Folsom
Green

Grimm
Hanson
Harwell

Herman
Hubbard



JUNIOR

Hall

Johnson

Worseck



McClanahan

Menefee

Mitchell



Nations

Patton

Peebles



Persels

Prange

Roes



Ruwwe

Schwalbert

Simmons



Spitzer

Turk

Vincent



Wommack

Wright



THE CLASS OF 1937

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WILLIAM BUSCH	-	-	-	-	-	-	<i>Secretary</i>
W. L. HOLZ	-	-	-	-	-	-	<i>Treasurer</i>

ALEXANDER, M. S.	-	-	Riverside, Ill.	ELLIS, P. B.	-	-	Cape Girardeau, Mo.
ANDERSON, R.	-	-	Jerseyville, Ill.	FAIRCHILD, R. J.	-	-	St. Louis, Mo.
APPLEYARD, F. C.	-	-	Glenview, Ill.	FINLEY, T. J.	-	-	St. Louis, Mo.
BARCLAY, A.	-	-	Ferguson, Mo.	FRAME, J. W.	-	-	Rolla, Mo.
BENTLEY, H.	-	-	Webster Groves, Mo.	GARDNER, R. H.	-	-	Waterloo, Ill.
BERGER, H. C.	-	-	Calumet City, Ill.	GOULD, E. P.	-	-	Marion, Ind.
BISHOP, D.	-	-	Sumner, Ill.	GRASS, R.	-	-	Monett, Mo.
BOHLIN, G.	-	-	St. Louis, Mo.	GREWIS, O. E.	-	-	St. Louis, Mo.
BREUER, W. F.	-	-	Rolla, Mo.	GRIMM, R. D.	-	-	Rolla, Mo.
BUSCH, W.	-	-	St. Louis, Mo.	HARR, F. E.	-	-	Butler, Mo.
CARDETTI, R. J.	-	-	Rosati, Mo.	HARWELL, G. A.	-	-	Poplar Bluff, Mo.
CARROLLA, R.	-	-	Kansas City, Mo.	HAWKINS, A. T.	-	-	Valley Park, Mo.
CHERRY, R. P.	-	-	Cape Girardeau, Mo.	HOLMAN, O. K.	-	-	Jefferson City, Mo.
CULBERTSON, W. W.	-	-	Rolla, Mo.	HOLTMAN, J. B.	-	-	Mexico, Mo.
DEADERICK, J. W.	-	-	Houston, Texas	HOLZ, W. L.	-	-	Maplewood, Mo.
DICKINSON, G. W.	-	-	University City, Mo.	JARRETT, W. R.	-	-	St. Louis, Mo.
DODS, S.	-	-	Kansas City, Mo.	JENNI, P. A.	-	-	Crystal City, Mo.
ELGIN, R.	-	-	Platte City, Mo.	JOHNSON, R. A.	-	-	Carthage, Mo.





KALEY, R. R. - - - - Scranton, Pa.
 KOPP, W. A. - - - - St. Louis, Mo.
 LANGE, R. C. - - - - Mexico, Mo.
 LOVE, R. W. - - - - Rolla, Mo.
 LUDER, W. E. - - - St. Louis, Mo.
 McCLANAHAN, A. L. - Desloge, Mo.
 McCRACKIN, O. E. - - Overland, Mo.
 McCUTCHEN, J. H. - - Campbell, Mo.
 McLAUGHLIN, J. W. - St. Louis, Mo.
 MASSIE, C. C. - - Summersville, Mo.
 PANCIERA, M. - - - Mystic, Conn.
 PERSELS, F. B. - - Kansas City, Mo.
 PETERS, J. E. - - - Pittsfield, Ill.
 PORTER, E. V. - - - Campbell, Mo.
 POST, S. S. - - - - Parma, Mo.
 POTTER, J. O. - - - Quincy, Ill.
 PRICE, S. R. - - - - St. Louis, Mo.

ROLLER, J. E. - - - - Monett, Mo.
 SCHAUMBURG, G. W. - St. Louis, Mo.
 SCHMIDT, R. C. - - - St. Louis, Mo.
 SHORES, A. K. - - - Overland, Mo.
 SILVER, P. E., JR., University City, Mo.
 SMITH, J. C. - - - Brooklyn, N. Y.
 STOGSDILL, H. G. - - - - Vida, Mo.
 SUHRE, A. W. - - - St. Louis, Mo.
 TAYLOR, M. W. - - - St. Louis, Mo.
 TISTADT, H. A. - Caruthersville, Mo.
 VAHLE, J. F., JR. - - St. Louis, Mo.
 VOLZ, E. W. - - - St. Louis, Mo.
 VOGT, F. K. - - - - Rolla, Mo.
 WEAVER, J. B. - - Kansas City, Mo.
 WILKEY, R. W. - - - - Risco, Mo.
 WILKINSON, R. L. - - Jerseyville, Ill.
 WRIGHT, V. - - - - St. Louis, Mo.



THE CLASS OF 1938

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H. E. BALLARD	- - - - -	<i>Vice President</i>
J. C. MOORE	- - - - -	<i>Secretary</i>
M. E. NICKEL	- - - - -	<i>Treasurer</i>

ARNOLD, R. J.	- - -	St. Louis, Mo.	FERNANDEZ, H. A.	- - - - -	
ARTMAN, J. S.	- - -	Suffolk, Va.		- -	Parral, Chihuahua, Mexico
ASCHEN, R. H.	- - -	St. Louis, Mo.	FRANCIS, W. M.	- -	Springfield, Ill.
BALLARD, H. E.	- - -	Jerseyville, Ill.	FREIDANK, R. D.	- - -	Palmyra, Mo.
BALLMAN, E. A.	-	University City, Mo.	GADDY, A. W.	- - - -	Rolla, Mo.
BECKMAN, R. A.	- -	Collinsville, Ill.	GERWIN, H. L.	- - -	Rush Hill, Mo.
BLACK, W.	- - - - -	Morley, Mo.	GLASER, A. M.	- - -	St. Louis, Mo.
BLISH, L. D.	- - -	Jerseyville, Ill.	GLEASON, L. J.	- - - -	Rolla, Mo.
BOLAND, J. V. JR.	- -	St. Louis, Mo.	GLENDENING, W. S.	- -	Geneva, Ind.
BOWMAN, D. C. JR.	-	St. Louis, Mo.	HAACKE, G. W.	- -	St. James, Mo.
CARROLL, J. F.	- - - -	Rutland, Vt.	HASSEL, F.	- - - - -	Chicago, Ill.
CASTEEL, L. W.	- -	Princeton, Mo.	HILL, E. F.	- - -	Phillipsburg, Mo.
CLAYTON, C. L.	- - - -	Rolla, Mo.	HOLBROOK, N. J.	- - -	Joplin, Mo.
COLLIER, C. W.	- - -	Licking, Mo.	JAMESON, C. C.	- -	Memphis, Tenn.
COLLIER, H. C.	- - -	Licking, Mo.	JENNINGS, R. T.	- - -	Licking, Mo.
COMPTON, B. C.	- -	St. Louis, Mo.	JOHNSON, S. E.	- - - -	Rolla, Mo.
COOPER, F. T.	- - - -	Union, Mo.	KELSEY, E. E.	- -	Mindenmines, Mo.
CORNETT, R. C.	- -	Webb City, Mo.	KNEEDLER, H. A.	- -	Maplewood, Mo.
DADY, E. W.	- - -	Herkimer, N. Y.	KUHLMAN, H. W.	- -	St. Louis, Mo.
DECKER, W. W.	- - - -	Rolla, Mo.	LEWIN, B. J.	- -	University City, Mo.
ELLIS, J. C.	- - -	Maplewood, Mo.	LEWIS, B. E.	- - -	Edwardsville, Ill.
EVANS, J. D. F.	- - -	Riverside, Ill.	LONG, J. R.	- - - - -	Cadet, Mo.





McCURDY, H. B. - Webster Groves, Mo.
 McENTIRE, K. R. - Kansas City, Mo.
 MILLER, H. C. - - - Joplin, Mo.
 MILLER, J. G. - - - St. Louis, Mo.
 MOLLET, H. W. - - - Laddonia, Mo.
 MOODY, H. C. - - - Palmyra, Mo.
 MOORE, J. C. - - St. Genevieve, Mo.
 MORRISON, F. - - - St. Louis, Mo.
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 MURPHY, J. H. - - - St. Louis, Mo.
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 NICKEL, M. E. - - - St. Louis, Mo.
 NUNNELLY, H. D. - New Florence, Mo.
 O'HARA, L. M. - - - St. Louis, Mo.
 PEUKERT, N. L. - - - Memphis, Mo.
 PHILLIPS, A. A. - - - Rolla, Mo.
 PRANGE, H. L. - - - St. Louis, Mo.
 PROUGH, R. G. - - - Kirkwood, Mo.
 RADCLIFFE, J. C. - - Kirkwood, Mo.
 REESE, R. C. - - East St. Louis, Ill.

RICHMOND, C. T. - - Omaha, Neb.
 ROGERS, H. R. - - - St. Louis, Mo.
 RUEMMLER, W. P. - - St. Louis, Mo.
 RUGGLES, L. J. - - - Gasconade, Mo.
 SCARBOROUGH, R. L. - Hartville, Mo.
 SCHEER, J. C. - - - St. Louis, Mo.
 SEIBEL, R. C. - - - St. Louis, Mo.
 SHIPPEE, C. L. JR. - Kansas City, Mo.
 SIBERT, K. V. - - - Webb City, Mo.
 SIMPSON, E. W. - - Falls City, Neb.
 SMITH, C. W. - - - St. James, Mo.
 SMITH, H. M. - - - Louisiana, Mo.
 STEINMETZ, H. O. - - St. Louis, Mo.
 THOMPSON, E. C. - - - Rolla, Mo.
 THOMPSON, F. W. - - - Rolla, Mo.
 TIEDE, J. E. - - - Billings, Mo.
 TITTEL, R. C. - - - Evansville, Ind.
 VON WEHRDEN, C. F. - St. Louis, Mo.
 WATTS, F. E. - - - Rolla, Mo.
 WILHITE, K. T. - - - Clayton, Mo.
 WONN, F. A. - - - Lamar, Mo.



An Ode To The Freshman

*When a Freshman comes to college
With his lonesome vacant stare,
Vaguely seeking after knowledge,
(A pursuit extremely rare),
First he learns to thread a needle,
Draw a circle or a square,
Copy signs with mystic meanings,
Or with meanings odd, and rare,
(Meanings very odd and rare).*

*Then he plays with tubes and bottles,
Spills some acid on his clothes,
Burns his fingers on the glassware,
Or ignites the rubber hose,
Puts together wrong ingredients,
Wafts the chlorine toward his nose,
Struggles vainly with equations,
Which surpass his other woes,
(Far surpass his other woes).*

*Next in turn comes mathematics,
Where the teachers all expound
On the functions of an angle,
Weird, illusive and profound;
Worst of all is analytics,
With its sections hyperbolic
And its circles and ellipses
Which induce a mental colic,
(A most dreadful mental colic).*

*Meanwhile English courses, various,
Rhetoric, and parts of speech,
Literature that's quite nefarious,
Bring probation right in reach,
And the Freshman starts to wonder
With curricula so queer,
Can he graduate with honor
And become an engineer,
Really be an engineer?*

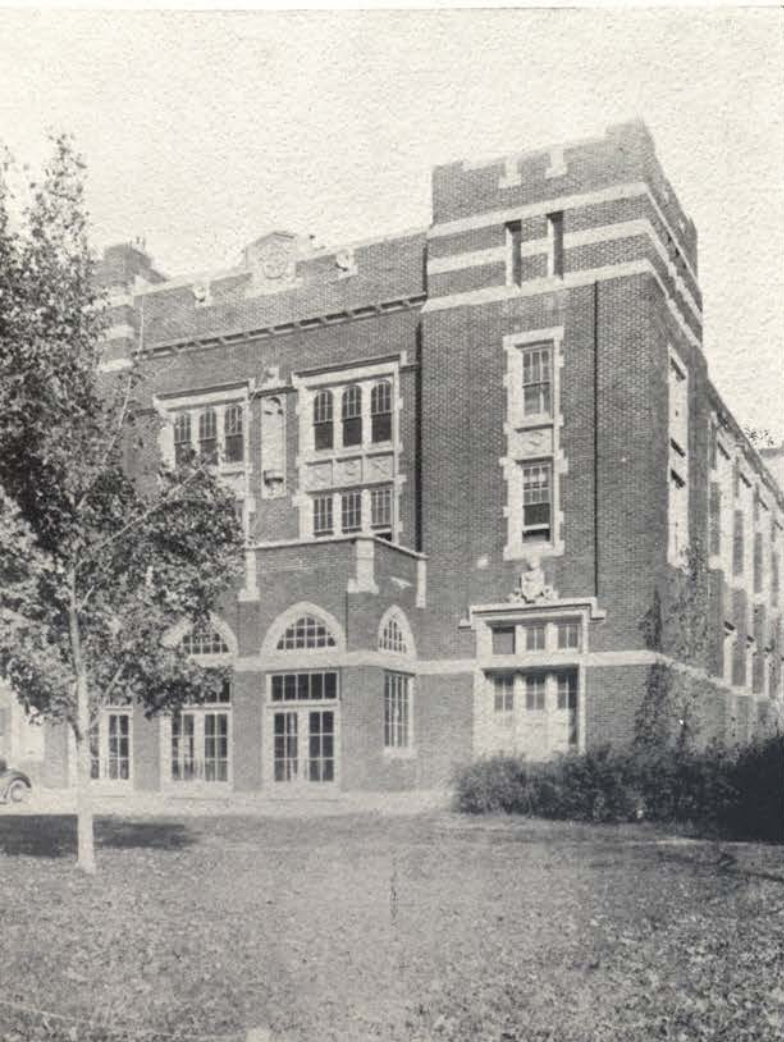
*Thus the Freshman's search for knowledge
Seems an aimless quest for lore
That will never hold his interest
Like a first-class football score.
Hold your courage, weary Freshman,
Men have trod this path before.
Next June you, too, may move upward
And become a Sophomore,
Wise and old, a Sophomore.*

EUGENE A. STEPHENSON.



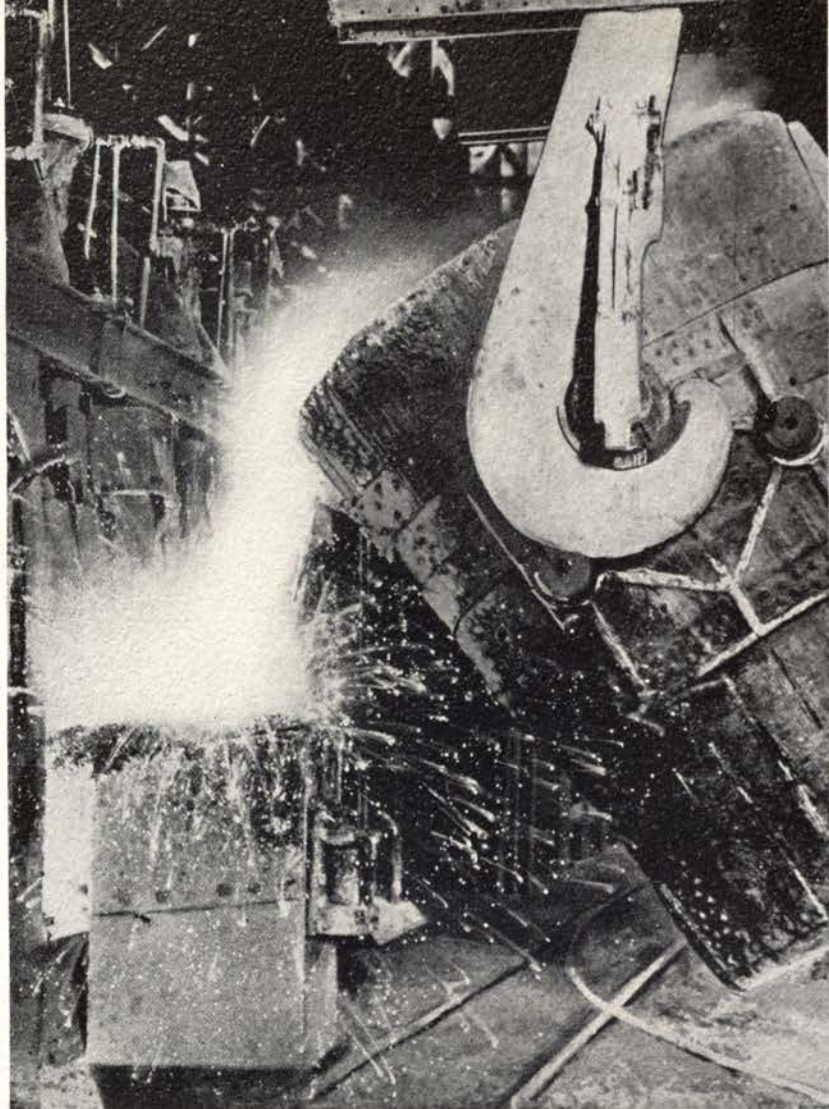


INTRODUCING THE COACHING STAFF,
MAJOR SPORTS, MINOR SPORTS,
AND INTRAMURAL SPORTS



THIS SECTION OF THE ALL-SCHOOL EDITION
OF THE ROLLAMO IS DEDICATED TO
THE DEPARTMENT OF





CHARGING AN OPEN-HEARTH WITH
MOLTEN PIG IRON

Metallurgy

The Metallurgist takes the raw minerals as he receives them from the mine, and extracts from them, through his knowledge of ore dressing and smelting, the pure metals.

In his research, by the combination of various metals, he has produced alloys which have made it possible for the world to make vast strides in the field of construction and transportation.



Grant



Brown



Kirchoff

COACHING STAFF

HAROLD GRANT	-	<i>Head Coach and Director of Athletics</i>
JUNIOR BROWN	- - - - -	<i>Assistant Coach</i>
ELMER KIRCHOFF	- - - - -	<i>Assistant Coach</i>

Coaches Harold Grant and Junior Brown have completed seven years of coaching for the Miners, and each succeeding year has surpassed the other in athletic achievements. The teams turned out by these men are famed for their fighting spirit, and the student body should be proud to acclaim them as their own.

Starring as a player at Emporia, Kansas, Coach Grant later became coach when Gwynn Henry went to the University of Missouri as head coach. Besides coaching football, Grant also directs the destiny of our track team. Until recently he directed the course of the basketball team. The latter is now under the supervision of Elmer Kirchoff.

Coach Brown learned his football under Coach Grant. He assists Grant in coaching the backfield. Besides his coaching activities, Brown manages intramural sports, and conducts the Freshmen classes in physical education.

Elmer Kirchoff, a new addition to this already great staff, showed that he had the material needed to make a great coach when he produced a winning basketball team. Elmer, a star in football and basketball, was made an assistant upon his completion of four years of college competition and has proved himself to be of great help to Grant.





FOOTBALL

PITTSBURG TEACHERS 18—MINERS 6

The K. S. T. C. Gorillas of Pittsburg, Kansas, defeated the Miners 18 to 6 in the Miners' first game of the season. Playing on a rain-drenched field, before a large crowd, the Miners were unable to get their offensive under way, and the only time they scored against the Gorillas was at the opening kickoff of the second half, when Jim McGregor, fleet Miner back, grabbed the kickoff, and behind excellent blocking dashed 87 yards for a touchdown. At times the Miners looked as if they were going places, and defensively the Miners did a good job of holding down the fast Pitt backs during the greater part of the game, but something would always happen and leave the team in a tight spot. Pitt's passing and running attack, while not steady, seemed to function in the tight spots, and when the breaks came they took advantage of them. The Miners made sixty-three yards from scrimmage against Pitt's 118. The Miners' six passes were good for fifteen yards and Pitt's sixteen were good for forty-eight. The Miners held a slight edge on punting, getting off fourteen for a total of 422 yards and Pitt kicked sixteen times for a total of 425 yards. However, Pitt held the advantage because of the poor handling of their punts by the Miner receivers.

MINERS 0—ARKANSAS TECH 6

The Miners again went down to defeat in their second game of the season. This time the shellacking was administered by the Wonder Boys of Arkansas Tech, and the game was played in a sea of mud.

Nickel, Miner halfback, performed brilliantly on the offensive, and his punts time and time again drove the Arkansas team far back down the field. "Nick" was also the only Miner back who was able to shake the Wonder Boys off his back and gain any appreciable yardage. Folsom, who replaced Dudley at left end, played a bang-up game on the defense, and it was very seldom Arkansas made any yards around his end.

The Miner offensive, while lacking a scoring punch, outplayed the Tech team three first downs to two, and outgained them sixty-nine to forty-five yards.





However, Arkansas had the edge in the aerial offense, attempting only five passes and completing two of them for a total of forty-one yards, while the Miners threw twelve passes and completed only three of them for a total of forty-two yards.

Injuries among the Miner backs slowed up the Miner offensive, and the muddy field was not conducive to the Miners' style of play, their spinners and cutbacks being rendered ineffective by the treacherous footing. Miner fumbles also proved costly, of their five miscues only one being recovered, and that for a ten-yard loss.

MINERS 0—KIRKSVILLE 19

In their third game of the season, the Miners again went down to defeat in the hands of Kirksville Teachers, M. I. A. A. champions, under a score of 19 to 0. The fast Kirksville eleven displayed plenty of power, and proved too much for the weakened Miner team, who were still suffering from injuries in the backfield, and could make very little headway on the offense.

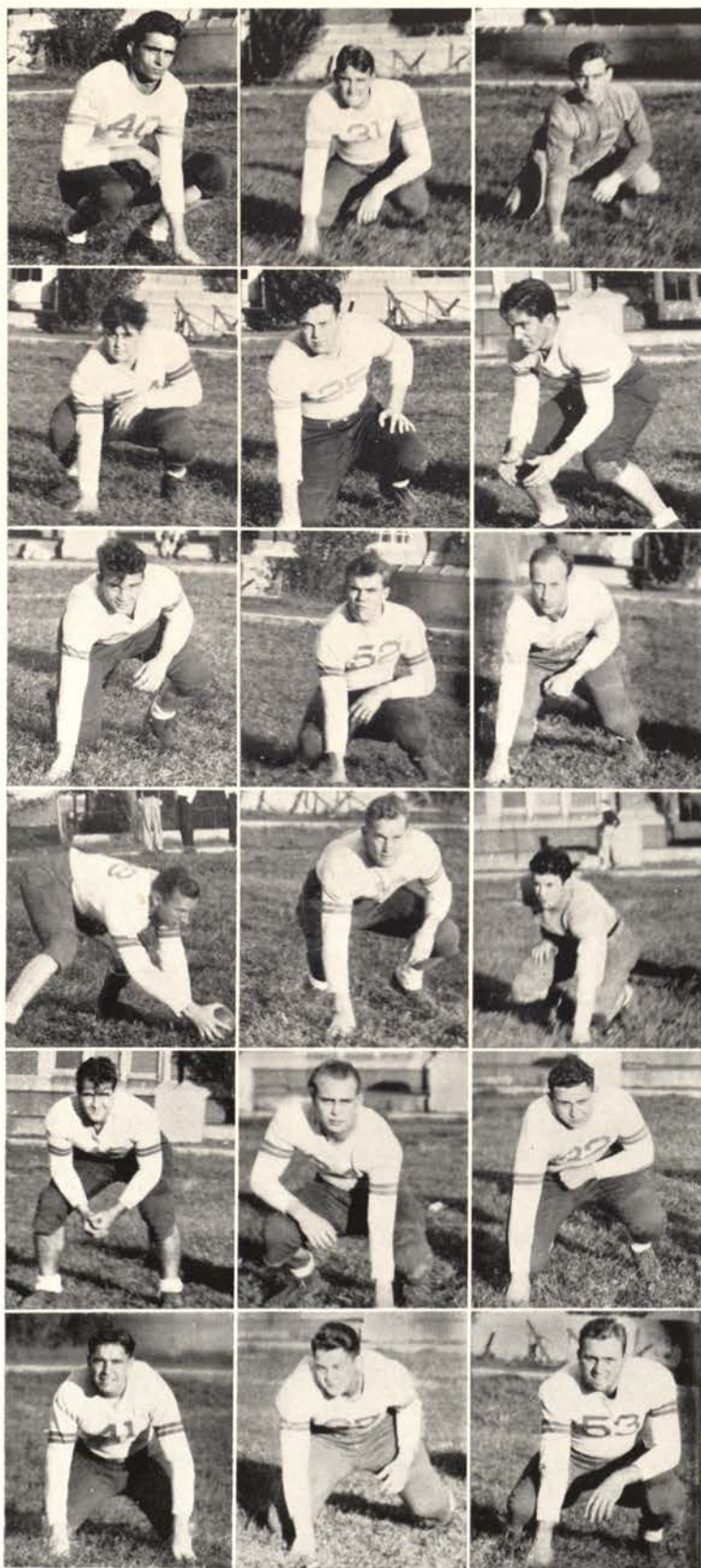
In the first quarter, Kirksville, after one of Doyle's long punts got over the Miner safety, scored by a pass and several line plunges. In the second quarter, Kirksville scored again as the result of an intercepted pass and a long run by Embree, Bulldog quarterback. The Teachers scored again in the third quarter by running the Miner ends, and a series of line plunges. This time the try for extra point was good, making the score 19 to 0, with Kirksville on the long end.

It was the outstanding play of Embree and Doyle of Kirksville that proved to be the Miners' downfall, Embree and his sensational running, and Doyle's fine punting putting the Miners in the hole time after time. It just wasn't the Miners' night, and Kirksville couldn't be stopped.

MINERS 6—McKENDREE 20

McKendree defeated the Miners in the Homecoming game, for the first time in eleven years, by the score of 20 to 0. The score, while decisive enough, does not tell the inside story of the game. The Miners, time after time, would





Suhre—End
 Penzel—Tackle
 Bohlin—End

Mattei—Guard
 Ballard—Guard
 Wilkey—Halfback



Reese—End
 Appleyard—Tackle
 Blish—Halfback

Holman—Center
 Murphy—End
 Fernandez—Halfback

Pfeifer—Fullback
 Vahle—Guard
 Harris—Tackle

Grewis—Guard
 Vincent—Guard
 Aylward—Tackle





march straight down the field only to be stopped in the shadow of the goal posts by fumbles or intercepted passes. The first McKendree touchdown came as the result of an intercepted pass and a long run by Wilson, star back. The next McKendree score came when Norris grabbed Nickel's fumble in mid-air and raced sixty yards practically unnoticed. The third touchdown also resulted from an intercepted pass and a line plunge by Wilson, who gave the Miners plenty of trouble by his fine running and passing.

The Miners' only score was made by Neel, who slipped around right end for the counter after the Miners had recovered a bad kick on the twenty-yard line. Nickel and McGregor carried the brunt of the running attack for the Miners, and Pfeifer did some excellent pass receiving. Penzel, Folsom, and Captain Spotti played bang-up games on the defense for the Miners.

The Miner blocking and tackling in this game was a great improvement over the first three, and the team began to look as if it would come out of the slump and show some real football during the remaining games.

MINERS 0—ARKANSAS U. 20

Arkansas' mighty Razorbacks proved too much for the Miners, and, while the Silver and Gold machine looked far better than in any of its previous games with a gamely fighting line and nicely working backfield, the Southwest Conference champions of last year held the decisive edge over the Miners.

Behind by twenty points with but a quarter to go, the Miner second string team made a march of sixty-five yards down the field, only to be stopped by a pass across the goal line which was just beyond the receiver's hands. The work of the second string backfield was particularly good; Neel's fine passing in the fourth quarter was largely responsible for the only sustained drive the Miners made. McGregor bore the brunt of the running attack and did some fine punting. Pfeifer, Plummer, and Schwab played a great defensive game among the backs, and in the line, Captain Spotti's, Massero's, Penzel's, Folsom's and Appleyard's work against one of the best lines in the South was really good.





Hubbard—End
Nickel—Halfback



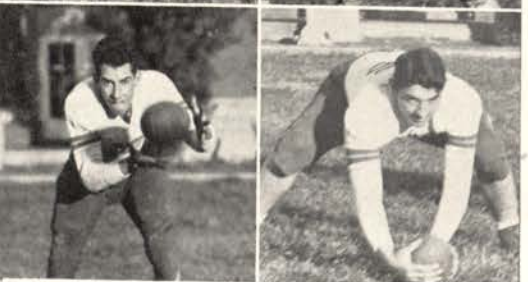
Dudley—End
Plummer—Fullback



Howerton—Halfback
Wommack—Quarterback



Gardner—Guard
Schwab—Halfback



Neel—Quarterback
Spotti—Center



McGregor—Halfback
Folsom—End





The Miners played a good game against the Razorbacks, showing a vast improvement in every department, both offensively and defensively, over the first part of the season.

MINERS 0—ST. LOUIS U. 25

The Miners met their sixth defeat of the season in the hands of the strong St. Louis Billikens. The Miners were outweighed by a large margin and the speed and size of the Billiken backs was too much for the small Miner eleven.

The Billikens scored in every quarter, Wood taking the ball over from the seven-yard line for the first score, the second coming from a Miner fumble on the seventeen-yard line. Hurley made a long dash for the third marker, and a pass from Wood to Kane ended the scoring.

St. Louis deserved to win the game. Their big, fast team was at its best. However, the Miner line deserves much credit for the great performance they turned in, and Captain Spotti's defensive work was a tower of strength in the center of the line.

McGregor's and Nickel's punting was very good. Nickel's punt from his own twenty-six-yard line was responsible for the only Miner scoring chance. The punt was fumbled by St. Louis and recovered by the Miners. McGregor took the ball on a sweeping right end run and crossed the goal line, but the officials claimed he touched the flag and disallowed the score, ending the only Miner hope. McGregor was also the main ground gainer for the Miners, making fifty-nine of the seventy-two yards gained from scrimmage.

MINERS 49—SPRINGFIELD TEACHERS 0

A victory starved Miner team began clicking and romped over the Springfield Bears to the tune of 49 to 0. It was the first victory of the year, but it helped to make up for some of the earlier reverses.

The Miner backfield made one long gain after another, piling up 418 yards from scrimmage, and completing eight out of ten passes for ninety-one yards. The victory proved to be costly. Three Miners, Massero, Vincent, and Vahle, all guards, were out the remainder of the season as a result of injuries received in the game.





The Miner offensive was slow to start and it was the middle of the first quarter before McGregor went over for the first score. In the second quarter the Miners piled up eighteen points on touchdowns, one by Nickel, and two by Pfeifer. Schwab added six more points in the third quarter, and at the beginning of the fourth quarter Nickel went over after a nice twenty-seven-yard run. Neel made the seventh Miner touchdown, after Pfeifer had brought the ball in position by a long run. McGregor took the ball over for the final score in the last minutes of the game. Everything was working that afternoon, and it was a great day for the Miners.

MINERS 18—MARYVILLE TEACHERS 14

The Miners closed their 1934 football campaign with an 18 to 14 victory over the Maryville Teachers. After running over three touchdowns in the first half, the Miners were content to sit back and watch Maryville run over two touchdowns with the aid of several long passes and a reverse play that the Miners could not stop.

The first half looked like it would be a runaway for the Miners, but the Teachers came back strong in the second half and with a strong running attack and several long passes almost overcame the Miner lead.

Neel started the scoring when he took the ball on what appeared to be a trick play and side stepped and twisted his way to a touchdown. The second marker came from a pass, Neel to Folsom, who raced to the one-yard line with the ball, from where it was carried over by Plummer, on a smash through center. Just before the half ended Nickel dashed around right end for the third touchdown, after a Maryville punt had been blocked by Murphy.

In the third quarter, a blocked Miner punt paved the way for the first Maryville touchdown, and the second came after a long pass from Benson to Jones was completed. Maryville converted both tries for extra points. Maryville then began a desperate passing attack, but Miners were everywhere, and the game ended with the ball on the four-yard line in possession of the Miners.





BASKETBALL

The Missouri School of Mines 1934 basketball squad playing their last Missouri Collegiate Athletic Union schedule, split even with the championship Westminster five, and also broke even with the second place Drury quintet.

The Miners did not fare so well against the stronger Missouri Inter-Collegiate Athletic Association teams, dropping two decisions to the Springfield Teachers, and dividing a pair of contests with Abe Stuber's Cape Girardeau squad. The Miners also dropped two games to St. Louis University, one in St. Louis and another on the local court.

The appointment of Elmer Kirchoff as head basketball coach was also one of the features of the season. At the start of the season Kirchoff had six veterans on which to build this team: Robert Prange, Robert Lange, Herman Pfeifer, Jim McGregor, Gus Wommack and Eager Nixon. Nixon, the only senior on the team, and Pfeifer, husky defense man, were appointed co-captains. Injuries prevented the team from improving its .500 percentage record, winning eight games and losing eight.

Featuring two freshmen, Gordon Moreland at guard, and Floyd Watts at forward, the Miners opened their season by playing the Cape Girardeau Teachers at Cape Girardeau. This was a very close game and the Miners won 26 to 25. Pfeifer was high point man in this game with ten points.

Returning to Rolla for their last game before the Christmas holidays the Miners walked over the Central Wesleyan five, 30 to 22. Co-Captains Nixon and Pfeifer were "hot" in this battle, scoring eight points apiece.





Nixon

Lange

R. Prange

Wommack

H. Prange

Clayton

The next game of the season was lost to Springfield 18 to 13, on the small court and under dim lights. On January 11, the Miners took Drury College, 18 to 16. Robert Prange, center, led the Engineers with six points in the game. After a week and a half of rest, the Miners again went into action, meeting the Springfield Teachers in a return game. The Miners lost this game, the score being 28 to 13.

On the first extended road tour of the season, the Silver and Gold trimmed the William Jewell cagers, 27 to 25, and the Missouri Valley quintet, 32 to 26, on successive nights, for their fourth and fifth victories against two defeats. Floyd Watts, freshman forward, cracked a shoulder blade and was out for the rest of the season. Pfeifer was also hurt and missed several games.

The Miners played one of their best games next, but lost to the St. Louis University by the score of 48 to 32. The Engineers lost a thrilling overtime contest to the Tarkio Owls, 38 to 36. Tied 34 to 34 at the end of the regular playing time, both teams battled through a scoreless overtime period.

The Miners lost the next two games played, Westminster Blue Jays at Fulton, 36 to 24, and to Drury College, 31 to 24, at Springfield. The game with the St. Louis squad was lost 50 to 38. Calling for a return battle, the Cape Girardeau Indians went home ahead of a 46 to 38 score. Ending their season in a blaze of glory, the Miners won over the Missouri Valley five, 39 to 27, and the Central cagers, 28 to 18.

McGregor led the team in scoring, ending up with 90 points for the season. Pfeifer was second high with 70, followed by Eager Nixon with 57, and Moreland with 51. The Miners scored 457 points for the season, averaging 28.5 per game. Their opponents scored 473 for a 29.5 average.

The prospects for an excellent season next year are rosy. Only two men, Eager Nixon and Jim (Stretch) Murphy are lost to the squad through graduation. Pfeifer, McGregor, R. Prange, H. Prange, Watts, Lange, Clayton, Beard, Busch, Moreland, Wommack and Ellis are the returning men.





Busch

Beard

Pfeifer

Ellis

McGregor

Moreland

SCHEDULE AND FINISH

Dec. 15.....	Miners 26	Cape Girardeau 25
Dec. 18.....	Miners 31	Central Wesleyan 23
Jan. 11.....	Miners 13	S. T. C. 18
Jan. 14.....	Miners 18	Drury 16
Jan. 21.....	Miners 13	S. T. C. 28
Jan. 28.....	Miners 27	William Jewell 25
Jan. 29.....	Miners 32	Missouri Valley 26
Feb. 2.....	Miners 32	St. Louis 48
Feb. 4.....	Miners 36	Tarkio 38
Feb. 18.....	Miners 24	Westminster 36
Feb. 12.....	Miners 24	Drury 31
Feb. 18.....	Miners 38	St. Louis 50
Feb. 21.....	Miners 39	Westminster 18
Feb. 25.....	Miners 38	Cape Girardeau 46
Feb. 27.....	Miners 39	Missouri Valley 27
Mar. 4.....	Miners 28	Central College 18

COMPOSITE BOX SCORE

Player	Games	F. G.	F. T.	F.	T. P.
Watts, f	9	11	8	7	30
*Lange, f-c	14	18	11	0	47
*Nixon, f	15	22	13	28	57
*McGregor, f-g	15	30	30	19	90
*Ellis, f-g	11	11	4	19	26
*Beard, f	11	14	5	11	33
Clayton, f	6	1	0	2	2
Murphy, c	7	7	11	11	25
*Pfeifer, c-g-f	14	29	12	21	70
*Prange, c-g	9	11	2	14	24
Wommack, g	8	0	0	5	0
*Moreland, g	13	18	15	13	51
Gardner, g	1	0	0	0	0
Smith, g	1	1	0	0	2
Busch, g	4	0	0	1	1
Totals.....		168	111	168	458
*Lettermen					





TRACK

The Miners opened their 1934 track season with the return of nine lettermen and several outstanding freshmen who developed into varsity material immediately. With this material Coach Grant developed one of the best Miner track teams that the school has had in several years, the team being strong in both track and field events.

Under the guidance of Captain Fort the team made a very good showing of itself and the outlook for next year is very promising as there are eleven lettermen who will return to the squad.

The Miners got off to a slow start and dropped their first meet to the Arkansas Razorbacks by a score of 81-51. Summary of events is as follows:

JAVELIN—Towse (M) first, Spivey (A) second, Sherland (A) third. Distance 188' 5".

TWO MILE RUN—Hall (M) first, Meacham (M) second, Thompson (A) third. Time 11:02.

BROAD JUMP—Whitfield (A) first, Geyser (A) second, McGregor (M) third. Distance 21' 6".

880-YARD RUN—Irwin (M) first, Lee (A) second, Suhre (M) third. Time 2:05.2.

HIGH JUMP—Lange and Kruse (M) tied for first, Newby (A) third. Height 5' 9".

220-YARD LOW HURDLES—Tilmon (A) first, Dvorachek (A) second, Hoffman (M) third. Time 28:00.

440-YARD DASH—Gower (A) first, Austin (A) second, Fort (M) third. Time 52.7.

DISCUS THROW—Schwab (M) first, Johnson (A) second, Suhre (M) third. Distance 116' 6".

POLE VAULT—Poole (A) first, Neel (M) second, Newby (A) third. Height 10' 9".

120-YARD HIGH HURDLES—Tilmon (A) first, Dvorachek (A) second, Kruse (M) third. Time 16.4.

220-YARD DASH—LaForge (A) first, McGregor (M) second, Whitfield (A) third. Time 22.8.

100-YARD DASH—LaForge (A) first, McGregor (M) second, Whitfield (A) third. Time 10.4.

MILE RUN—Gowers (A) first, Meacham (M) second, Hall (M) third. Time 4:52.0.

SHOT PUT—Spivey (A) first, Poole (A) second, Schwab (M) third. Distance 43' 1".





Pfeiter

Howerton

Lange

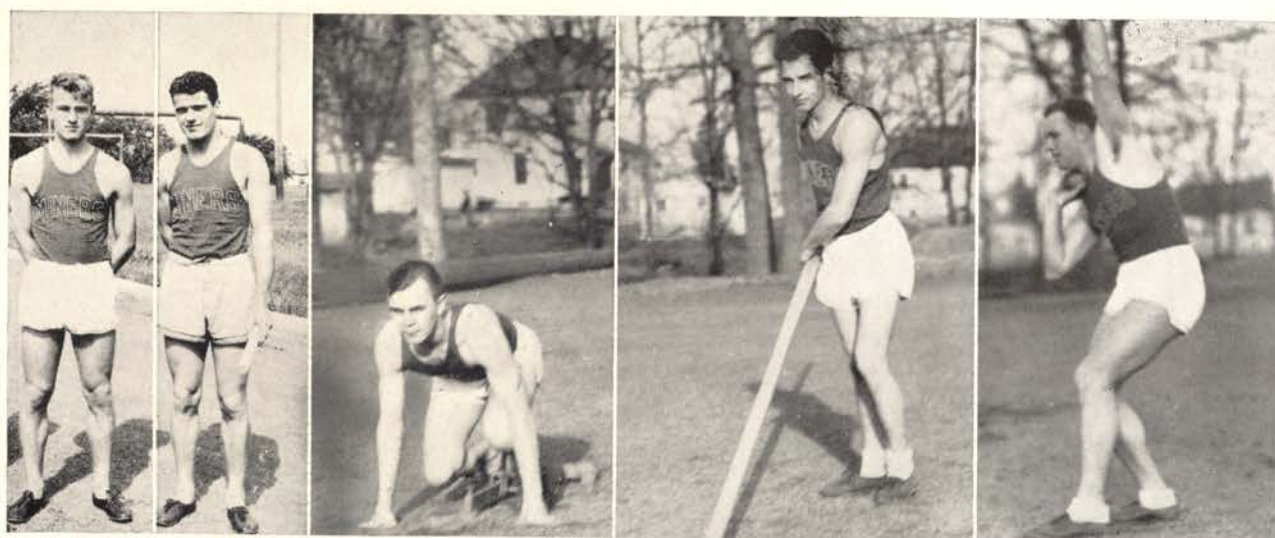
Hubbard

Hall

In the second meet of the season the Miners easily outclassed their opponents, Central and Westminster. The Miners scored 63 points to 46 for Central and 33 for Westminster. This is the second year in succession that the Miners have won this annual triangular meet. Summary of events is as follows:

POLE VAULT—Neel (M) and Taylor (C) first, Patterson (W) third. Height 10' 9".
 SHOT PUT—Aylward (M) first, Schwab (M) second, Edmonds (W) third. Distance 38' 2".
 100-YARD DASH—McGregor (M) first, Howerton (M) second, Jackson (C) third. Time 10:00.
 DISCUS THROW—Schwab (M) first, Kruse (M) second, Suhre (M) third. Distance 111'.
 MILE RUN—Toney (W) first, Morgan (C) second, Jacobs (W) third. Time 4:46.
 440-YARD DASH—Edmonds (W) first, Jackson (C) second, Bennets (C) third. Time 52.3.
 HIGH JUMP—Kruse (M) first, Lange (M) and Monroe (C) tied for second. Height 5' 10".
 120-YARD HIGH HURDLES—Imes (C) first, Kruse (M) second, Emmons (W) third. Time 16.4.
 880-YARD RUN—Irwin (M) first, Pevestoriff (W) second, Yoder (C) third. Time 2:07.
 JAVELIN THROW—Towse (M) first, Chiles (C) second, Holman (M) third. Distance 177'.
 220-YARD DASH—McGregor (M) first, Howerton (M) second, Swain (C) third. Time 21.6.
 TWO MILE RUN—Morgan (C) first, Hall (M) second, Barron (W) third. Time 10:02.
 BROAD JUMP—Avis (W) first, Imes (C) second, McGregor (M) third. Distance 21' 10".
 220-YARD LOW HURDLES—Imes (C) first, Hurst (C) second, Emmons (W) third. Time 25.8.
 MILE RELAY—Westminster first (Edmonds, Toney, Pevestoriff, Jacobs), Central second, Miners third. Time 3:34.7.
 HALF MILE RELAY—Miners first (McGregor, Hoffman, Nickel, Howerton), Central second, Westminster third. Time 1:35.





Nickel

McGregor

Hoffman

Neel

Aylward

In the third meet of the season the Bears of Springfield Teachers College were defeated by the Miners with the score of 70 to 66. The score was close throughout, with neither of the teams having greater than a five point advantage at any time. The Miners were trailing by two points with two events remaining, but they managed to win these and come home the victors. The summary of the Miners-Teachers meet follows:

100-YARD DASH—McGregor (M) first, Barnes (S) second, Knight (S) third. Time 10.7.
 220-YARD DASH—Howerton (M) first, Barnes (S) second, Knight (S) third. Time 23.4.
 220-YARD LOW HURDLES—Calloway (S) first, Nickel (M) second, Barnett (S) third. Time 27.3.
 440-YARD DASH—McGregor (M) first, Irwin (M) second, H. Wolpers (S) third. Time 52.00.
 880-YARD RUN—Babb (S) first, Irwin (M) second, Suhre (M) third. Time 2:08.
 120-YARD HIGH HURDLES—Calloway (S) first, Barnett (S) second, Kruse (M) third. Time 17.2.
 MILE RUN—Babb (S) first, Carter (S) second, Meacham (M) third. Time 4:53.8.
 880-YARD RELAY—Miners (McGregor, Hoffman, Nickel and Howerton) first. Time 1:34.4.
 TWO MILE RUN—Carter (S) first; Martin (S) second; Hall (M) third. Time 10:34.00.
 MILE RELAY—Miners (Meacham, Suhre, McGregor and Irwin) first. Time 3:38.00.
 SHOT PUT—Roush (S) first, Aylward (M) second, Schwab (M) third. Distance 40' 1/2".
 DISCUS THROW—Schwab (M) first, Roush (S) second, Suhre (M) third. Distance 119'.
 JAVELIN THROW—Towse (M) first, Dennis (S) second, Nixon (M) third. Distance 179' 6".
 HIGH JUMP—Lange (M) first, Spurgeon (S) and Kruse (M) tied for second. Height 5' 9".
 POLE VAULT—Roush (S) first, Neel and Lange (M) tied for second. Height 10' 9".
 BROAD JUMP—McGregor (M) first, Dennis (S) second, Calloway (S) third. Distance 20' 10".

The fourth meet of the season brought the Miners defeat when they fell before the Cape Teachers by the score of 76 5/6 to 59 1/6. The outstanding event of the day was the leap of 6 feet, 1 inch by Bob Lange for a new school record. Summary of events is as follows:



100-YARD DASH—McGregor (M) first, Mastiller (C) second, Boda (C) third. Time 10.1.
 MILE RUN—Ferguson (C) first, Meacham (M) second, Hall (M) third. Time 4:40.2
 220-YARD DASH—Howerton (M) first, Metje (C) second, Hubbard (M) third. Time 22.9.
 120-YARD HIGH HURDLES—Hubbard (C) first, Masteller (C) second, Kruse (M) third.
 Time 16.1.
 440-YARD DASH—McGregor (M) first, Irwin (M) second, Hall (C) third. Time 51.6.
 220-YARD LOW HURDLES—Masteller (C) first, Hubbard (C) second, Howerton (M)
 third. Time 25.8.
 880-YARD RUN—White (C) first, Suhre (M) second, McDonald (C) third. Time 2:03.1.
 TWO MILE RUN—Ferguson (C) first, Hall (M) second, Meacham (M) third.
 Time 10:23.6.
 HALF MILE RELAY—Cape Girardeau first. Time 1:32.3.
 MILE RELAY—Resulted in tie. Time 3:32.5.
 DISCUS THROW—Hubbard (C) first, Schwab (M) second, Suhre (M) third.
 Distance 128' 4".
 JAVELIN THROW—Jones (C) first, Bray (C) second, Nixon (M) third. Distance 162' 9".
 SHOT PUT—Aylward (M) first, Jones (C) second, Schwab (M) third. Distance 38' 4".
 POLE VAULT—Schumacher (C) first, Obermeller (C) Neel and Bird (M) tied for
 second. Height 11'.
 HIGH JUMP—Lange (M) first, Kruse (M) second, Graliel (C) third. Height 6' 1".
 BROAD JUMP—Boda (C) first, McGregor (M) second, Oglesby (C) third. Distance 22' 3".

The Miners' next meet was with their arch rivals from Drury College. The Miners won this meet very easily by the score of 83 to 53. Summary of events is as follows:

DISCUS THROW—Schwab (M) first, O'Dell (D) second, Westover (D) third.
 Distance 111' 11".
 JAVELIN THROW—Focht (D) first, Pfeifer (M) second, Westover (D) third.
 Distance 153' 11".
 SHOT PUT—Aylward (M) first, Schwab (M) second, O'Dell (D) third. Distance 37' 3".
 POLE VAULT—Glen (D) first, Neel and Lange (M) second. Height 11'.
 HIGH JUMP—Lange (M) first, Golden (D) second, Kruse (M) third. Height 6' 0".
 BROAD JUMP—Glen (D) first, McGregor (M) second, James (D) third. Distance 20' 11".
 100-YARD DASH—McGregor (M) first, O'Dell (D) second, Dobson (D) third. Time 10.1.
 MILE RUN—Meacham (M) first, Kirkman (D) second, Newberry (D) third. Time 4:47.5.
 440-YARD DASH—Irwin (M) first, Suhre (M) second, Rowden (D) third. Time 54.2.
 120-YARD HIGH HURDLES—Knight (D) first, Gibson (D) second, Kruse (M) third.
 Time 16.9.
 880-YARD RUN—Irwin (M) first, Suhre (M) second, Hackett (D) third. Time 2:06.2.
 220-YARD DASH—McGregor (M) first, Howerton (M) second, O'Dell (D) third.
 Time 22.3.
 TWO MILE RUN—Hall (M) first, Newberry (D) second, Meacham (M) third.
 Time 11:01.6.
 220-YARD LOW HURDLES—Knight (D) first, Nickel (M) second, Gibson (D) third.
 Time 27.4.
 MILE RELAY—Miners (by default).
 ONE-HALF MILE RELAY—Miners. Time 1:33.4.

The Miners finished in a tie for third place in the Missouri College Athletic Union track meet held at Marshall. Tarkio won the meet with a total of 41 points; Westminster was next with 38 points; the Miners and Central finished in a tie for third with 31½ points each, followed by Missouri Valley with 11 points, William Jewell with 9 points. Culver-Stockton was not represented.

The Miners placed first in four events. Lange won the high jump with a leap of six feet. The relay team, composed of McGregor, Hubbard, Nickel and Howerton, won the half-mile relay. Towse won the javelin throw with a heave of 180 feet. Irwin came back to form to win the half mile in the good time of 2:02. Howerton and McGregor finished third and fourth, respectively, in the century, while McGregor finished second in the furlong.

Kruse ran third in the high hurdles and came back to tie for second in the high jump. Hall got a fourth in the two-mile run and the mile relay team finished fourth in that event.





Top Row: Worseck, Holz, Breuer, Sergeant Bertram, Price, Book, Morgan
Bottom Row: Fischer, Fiss, Vogt, Dutton, Maise

RIFLE TEAM

Rifle shooting, as an inter-collegiate sport, has just passed through its second year at M. S. M. The team has shown a decided improvement over last year, and under the direction of Sergeant William B Bertram, the team finished eighth among eighteen universities in the Corps Area Rifle Matches compared to last year when they finished sixteenth in competition with seventeen universities. The prospects are excellent for continued improvement next year.

THE MEMBERS OF THE TEAM

A. L. Worseck
M. H. Breuer
W. L. Book
J. G. Miller
F. K. Vogt

V. D. Morgan
D. W. Dutton
M. M. Fischer
C. R. Maise
K. T. Wilhite

J. E. Peters
E. C. Fiss
W. Holz
A. Hawkins
S. R. Price

Throughout the year the team fired the following matches:

With Washington University, two shoulder-to-shoulder matches, one match being fired at each institution. The results were:

October 15	- - - - -	M. S. M.	3401
		Washington	3401
March 21	- - - - -	M. S. M.	2647
		Washington	2701

In addition to the shoulder-to-shoulder matches the following postal matches were fired. The M. S. M. score is the only one given.

Virginia Military Institute	- - - - -	M. S. M.	3417
Oklahoma A. and M. College	- - - - -	M. S. M.	3512
Hearst Trophy Match—5 man	- - - - -	M. S. M.	850
The Society of Military Engineers	- - - - -	M. S. M.	3435
Seventh Corps Area	- - - - -	M. S. M.	7354



INTRAMURAL BASKETBALL 1935

The Freshmen Independents, by winning ten games in a row without a loss, were the undisputed basketball champions of the 1934-'35 season. Led by Ed Ballman and Joe Carroll, who finished second and third respectively in the scoring list, the Freshmen went through an undefeated season to gain the honors from last year's title holders, the Pi K. A. squad, which finished in a tie for third place.

The Sophomore quintet finished in the "show" position with eight wins and two losses, losing to the Freshmen and the Mercier fives. Led by Sam Smith, who set a new school record for scoring with 113 markers, to surpass Reade Beard's 107 points made in 1934, the Sophomores were always in the thick of the fight. Smith averaged 12.5 points per game, and was followed by Ballman with 7.7 and Carroll with 6.88. Harvey, a Senior, had a better average than Carroll, but did not score as many buckets.

Tied for third were the Pi K. A.'s, Seniors and Sigma Nu's, all with seven victories and three defeats. The Pi K. A.'s lost to the Freshmen, Seniors and the Sophomores, while Sigma Nu dropped close battles to the Freshmen, Pi K. A.'s and the Sophomores.

The Seniors, after getting off to a bad start, played good ball and finished up in the tie for third, also dropping three games by the wayside in the hot race. Harvey's sensational shooting kept the bewhiskered lads in the running, as he ended the season with 58 ducats on the right side of the books.

The Merciers, Lambda Chi's, Kappa Sig's, Triangles, Sigma Pi's and the Juniors finished up in the order named. The Juniors forfeited all of their ten games. While not as exciting as in former years, the intramural contests proved just as popular as ever, with eighty members of the eleven teams going through their paces every few days.

FINAL INTRAMURAL STANDINGS

Team	W.	L.	Pct.
Freshmen - - - -	10	0	1000
Sophomores - - - -	8	2	800
Pi K. A.'s - - - -	7	3	700
Sigma Nu's - - - -	7	3	700
Seniors - - - -	7	3	700
Merciers - - - -	6	4	600
Lambda Chi's - - - -	4	6	400
Kappa Sig's - - - -	2	8	200
Triangles - - - -	2	8	200
Sigma Pi's - - - -	2	8	200
Juniors - - - -	0	10	000



INTRAMURAL BASEBALL 1934

In the 1934 baseball competition, two leagues were formed, the American and the National Leagues. In the National League the Sigma Pi's completed the season undefeated, and in the American League, the Senior Independents did the same thing.

In the "World Series," the Senior Independents became the school champions, defeating the Sigma Pi's in the last two games of a three game series.

LEAGUE STANDING

NATIONAL

				Won	Lost	Percent
Sigma Pi	-	-	-	4	0	1.000
Junior Independents	-	-	-	3	1	.750
Mercier	-	-	-	2	2	.500
Sigma Nu	-	-	-	1	3	.250
Sophomore Independents	-	-	-	0	4	.000

AMERICAN

				Won	Lost	Percent
Senior Independents	-	-	-	4	0	1.000
Lambda Chi	-	-	-	3	1	.750
Pi Kappa Alpha	-	-	-	2	2	.500
Freshmen Independents	-	-	-	1	3	.250
Kappa Sigma	-	-	-	0	4	.000



INTRAMURAL TRACK MEET 1934

The 1934 Intramural track meet was won by the Junior Independents, who nosed out the Pi K. A.'s by the margin of $2\frac{1}{2}$ points.

Barry was high point man for the meet with 20 points, made by taking four firsts.

Results of the events as run off are:

50-YARD DASH: McCarron, Sigma Pi, first; Haffner, Mercier, second; Cardetti, Mercier, third; Houseknecht, Lambda Chi, fourth. Time 6.0.

60-YARD HIGH HURDLES: Barry, Triangle, first; Weigle, Pi K. A., second; Rasor, Kappa Sig, third. Time 8.6. (New record.)

220-YARD DASH: Woerheide, Sigma Nu, first; Cardetti, Mercier, second; Nations, Pi K. A., third; Wilkey, Freshmen, fourth. Time 24.5.

440-YARD RELAY: Sigma Nu, first; Kappa Sigma, second; Juniors, third.

SHOT PUT: Barry, Triangle, first; Pfeifer, Pi K. A., second; Fisher, Juniors, third; Massaro, Juniors, fourth. Distance 35 feet 6 inches. (New record.)

POLE VAULT: Wilkerson, Freshmen, first; Weigle, Pi K. A., second; Johnson, Lambda Chi, third; Schamel, Triangle, fourth. Height 9 feet 9 inches.

100-YARD DASH: Teufert, Juniors, first; Folsom, Sigma Nu, second; Holz, Freshmen, and McCaw, Sigma Nu, tied for third.

880-YARD RELAY: Sigma Nu, Folsom, Coddington, Twyman and Woerheide, first; Pi K. A., second; Sigma Pi, third; Freshmen, fourth. Time 1:42.6. (New record.)

HIGH JUMP: Barry, Triangle, first; Weigle, Pi K. A., second; Fischer, Juniors, fourth. Height 5 feet 6 inches.

120-YARD LOW HURDLES: Rasor, Kappa Sigma, first; Springer, Lambda Chi, second; Weigle, Pi K. A., third; Twyman, Sigma Nu, fourth. Time 15.4. (New record.)

DISCUS THROW: Spotti, Juniors, first; Carpenter, Sigma Pi, second; Pfeifer, Pi K. A., third; Massaro, Juniors, fourth. Distance 107 feet 2 inches.

JAVELIN THROW: Pfeifer, Pi K. A., first; Massaro, Juniors, second; Teufert, Juniors, third; Grewis, Sigma Nu, fourth. Distance 152 feet 4 inches. (New record.)

BROAD JUMP: Barry, Triangle, first; Wilkey, Freshmen, second; Teufert, Juniors, third; Beard, Triangle, fourth. Distance 20 feet 3 inches. (New record.)



INTRAMURAL SWIMMING 1934

The 1934 swimming title was won by the Junior Independents in a closely contested meet. Every record but the 100-yard free style was broken. The Juniors lowered the 160-yard relay record from 1:46.4 to 1:34; Weigle, Pi K. A., took the 100-yard breast stroke record from 1:29.2 to 1:23.9. Prange, Sophomore, set a new record of 22.35 in the 40-yard dash. Borgstede, of the Juniors, set a new record of 1:29.6 in the 100-yard back stroke, clipping 8.5 seconds from the old record. The Juniors also hung up a new record in the 120-yard medley of 1:25; the old record was 1:25.9.

High point men were: Borgstede, Juniors, 9 2-3; Weigle, Pi K. A., 8 1-3; Kruse, Triangle, 7 1-2.

Results of the events are as follows: Points for individual races were given 5, 3, 2, 1. In the relays, 8, 6, 4, 2.

160-YARD RELAY: Juniors, Sigma Nu; Sophomores, Triangle. Time 1:34. (New record.)

100-YARD BREAST STROKE: Weigle, Knoll, Fischer. Time 1:23.9. (New record.)

40-YARD FREE STYLE: Prange, Hoffman, Gleason, Beard. 22.35. (New record.)

100-YARD BACK STROKE: Borgstede, Gleason, Koopman, Book. Time 1:29.6. (New record.)

100-YARD FREE STYLE: Kruse, Bright, Schwab, Wommack. Time 1:13.4.

FANCY DIVING: Neel, Schwab, Weigle, Ruwwe.

120-YARD MEDLEY RELAY: Juniors, Triangle; Pi K. A., Sigma Nu.





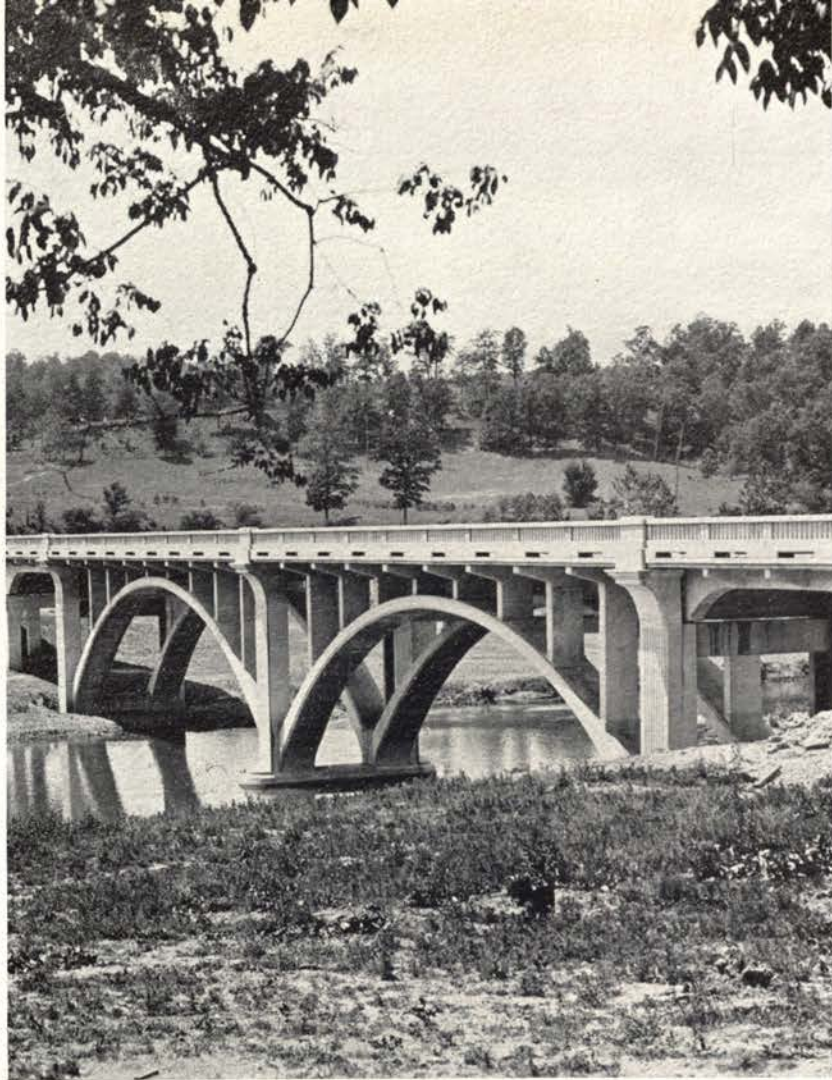
INTRODUCING THE HONORARY AND
PROFESSIONAL FRATERNITIES
AND SOCIETIES



THIS SECTION OF THE ALL-SCHOOL EDITION
OF THE ROLLAMO IS DEDICATED TO
THE DEPARTMENT OF

CIVIL ENGINEERING





A CONCRETE ARCH BRIDGE

Civil

A bridge designed to cross the Hudson could not be built over the Mississippi without material changes. Each specific condition must have its own design, since the earth's surface, and underlying structure changes so rapidly from point to point.

The Civil Engineer's work does not lend itself to production methods. Typical works planned and executed by him are: bridges, buildings, highways, railroads, dams, tunnels, sewage systems and water supplies.



Top Row: Coddington, Fischer, Frank Green
Bottom Row: Hoffman, Holt, Mashek, McDill, Nolde

PHI KAPPA PHI

INITIATES 1934-35, CLASS 1935

A. J. Boles
W. H. Coddington
W. B. Danforth
D. W. Dutton
M. M. Fischer

A. T. Frank
L. H. Green
E. D. Hoffman
F. H. Holt
R. J. Knoll

J. W. Mashek
G. T. Nolde
W. A. Peters
W. H. McDill

PROGRAM

The principal address at the fall banquet was by Dr. Fulton on "Beliefs." Two meetings conducted by initiates were held, at which the differing aspects of the Tennessee Valley project were presented and discussed with lively interest. At the spring banquet the interchange of views between the faculty and graduating members was unusually interesting and cordial.

NEW AWARD

M. S. M. Chapter of Phi Kappa Phi will award "For High Scholarship," to the upper 15% of each class each fall a vellum book plate in recognition of good work in the preceding year. In addition to the members of the class of 1935 who were initiated, the following received this award:

CLASS OF 1935: W. O. Neel

CLASS OF 1936: E. C. Fiss
M. E. Green

J. R. Hubbard
L. W. Meyer

T. M. Patten
B. E. Peebles

W. H. Schwalbert J. C. Turk
R. H. Striker A. E. Woerheide, Jr.

CLASS OF 1937: W. Busch
W. W. Culbertson

R. J. Fairchild
R. D. Grimm

A. Kilpatrick
W. E. Luder

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J. H. STEINMESCH	- - - - -	President
H. L. DUNLAP	- - - - -	Vice President
A. E. CARLTON	- - - - -	Secretary-Treasurer
R. M. RANKIN	- - - - -	Corresponding Secretary





Buck, Coddington, Dallmeyer, Dutton, Fischer, Frank
Hoffman, Holt, Knoll, Mashek, McDill, Neel
Nixon, Nolde, Penzel, Ishiguro, Snyder, Woerheide

TAU BETA PI

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G. R. Dean
C. H. Fulton
L. E. Garrett

H. R. Hanley
R. O. Jackson
K. K. Kershner
C. V. Mann
G. A. Muilenburg

R. M. Rankin
D. F. Walsh
R. Z. Williams
W. C. Zeuch

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A. J. Boles
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W. H. Coddington
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D. W. Dutton
M. M. Fischer
A. T. Frank

E. D. Hoffman
F. H. Holt
H. Ishiguro
R. V. Knoll
W. H. McDill
J. W. Mashek
W. O. Neel

E. W. Nixon
G. T. Nolde
G. A. Penzel
C. W. Snyder
A. E. Woerheide





Dallmeyer
Johnson
Murphy

Dutton
Kamper
Nations

Fisher
Knoll
Nickel

Holtman
Koopman
Nolde

Hubbard
Turk
Schwalbert

THETA TAU

OFFICERS

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R. J. KNOLL	-	-	-	-	-	-	<i>Treasurer</i>
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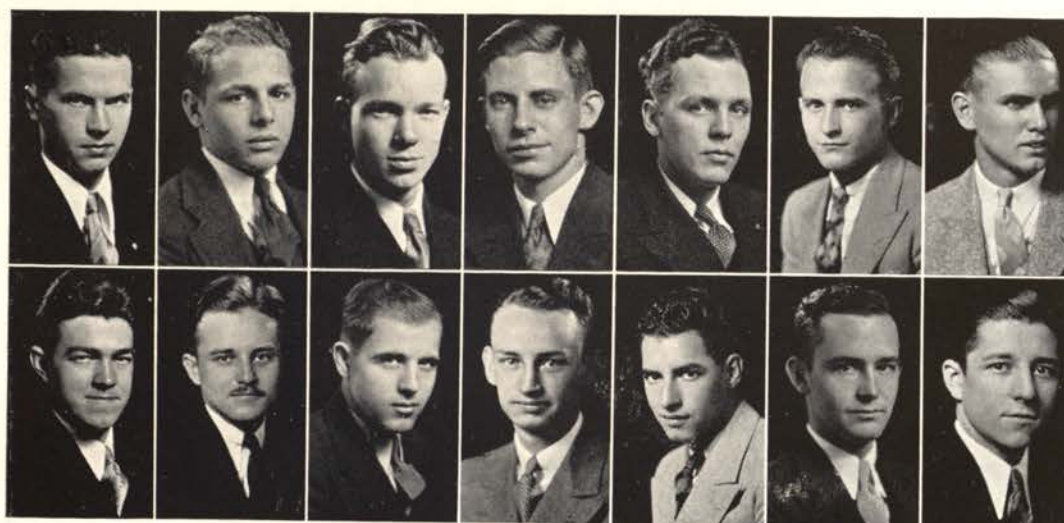
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R. L. Fisher
W. G. Graff
N. J. Gilsdorf
L. W. Holtman

J. R. Hubbard
R. Johnson
R. J. Knoll
O. W. Kamper
A. P. Koopman
J. J. Murphy

G. O. Nations
E. J. Nickel
G. T. Nolde
J. W. Ruwwe
W. H. Schwalbert
J. C. Turk





Brisch, Cardetti, Danforth, Fiss, Fager, Haffner, Howe
Lange, Maise, Menke, Mortland, Neel, Sabine, Zvanut



EPSILON PI OMICRON

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H. H. Haffner
H. A. Brisch
L. A. Bay
R. H. Cardetti
H. C. Berger

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R. A. Macke
E. L. Smith

E. C. Meckfessel
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T. A. Roes
W. Donnelly
M. R. Spahr
J. Ribotto
R. M. Beard
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J. Harvey
Don Bowman
W. S. Glendenning
H. A. Fernandez
R. Prough
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H. C. Berger
R. H. Striker
J. R. Hubbard
E. L. Smith

P. D. Houseknecht
H. G. Mortland
H. J. Haffner
H. A. Brisch
W. A. Howe
R. E. Schneider
H. D. Dallmeyer
W. B. Danforth
H. B. Colman
H. G. Thompson





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A. J. HOENER	- - - - -	<i>Secretary-Treasurer</i>
W. G. TWYMAN	- - - - -	<i>Corresponding Secretary</i>

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F. J. Zvanut
C. H. McDonald
O. W. Kamper
E. L. Dudley
W. G. Twyman

R. M. Springer
M. E. Green
A. J. Hoener
E. Frauenfelder
P. Branstedder
S. Dods



There are many contacts the student can make by becoming a member of the professional society of his own field of engineering. The meetings held by these societies are the place to exchange ideas of the profession. It also gives the student an opportunity to hear outstanding engineers speak. It would be worthwhile for each student to affiliate himself with the chapter of the professional society which represents the engineering field he expects to follow.

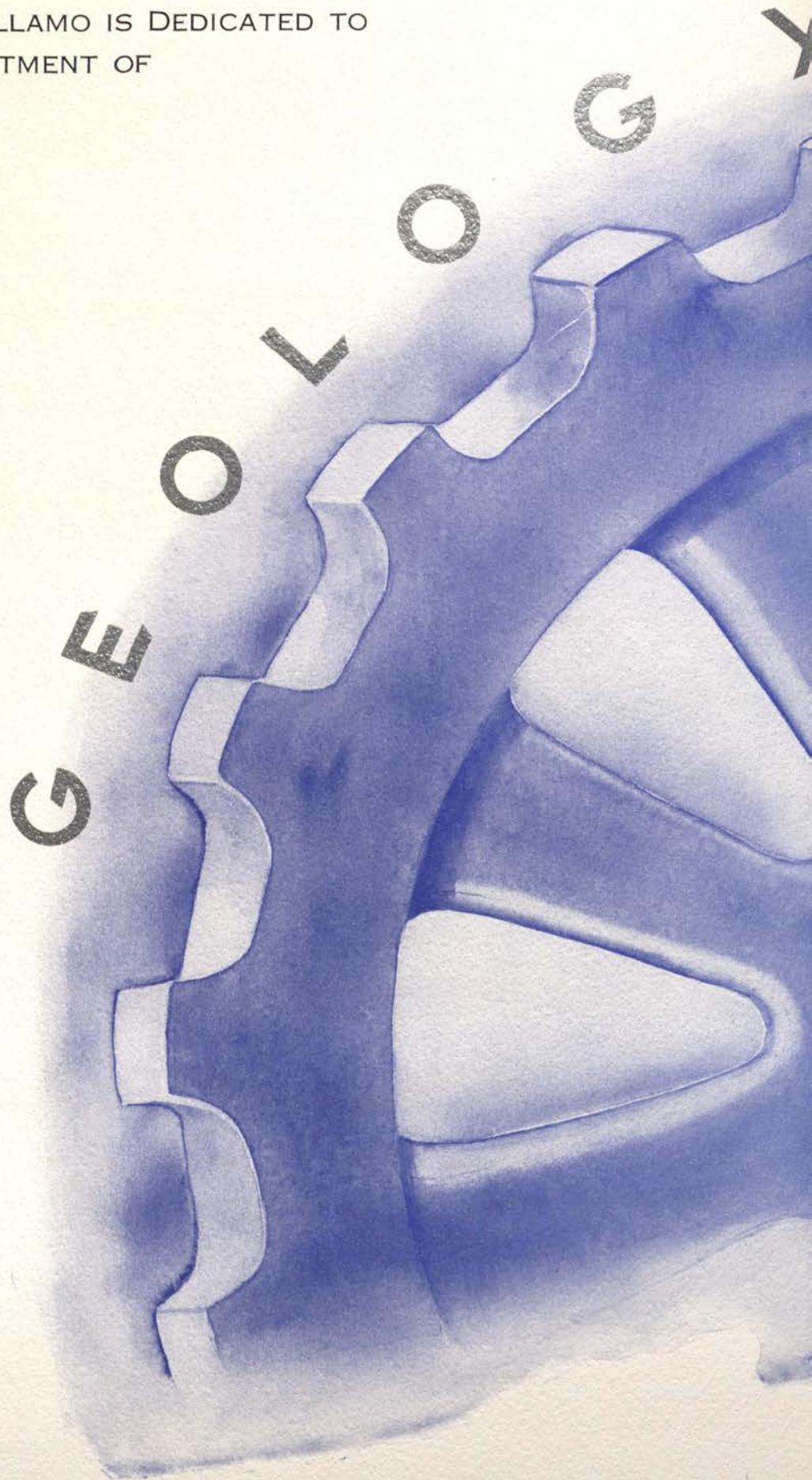


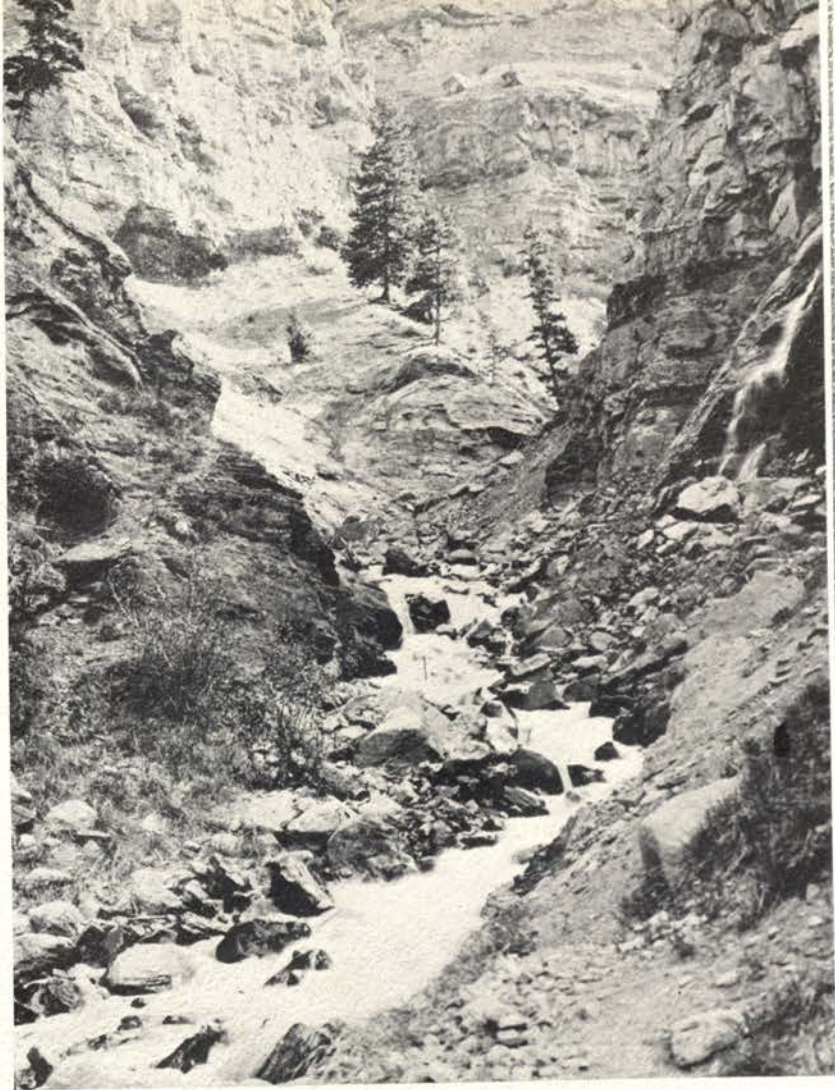


INTRODUCING THE SOCIAL
FRATERNITIES



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THE DEPARTMENT OF



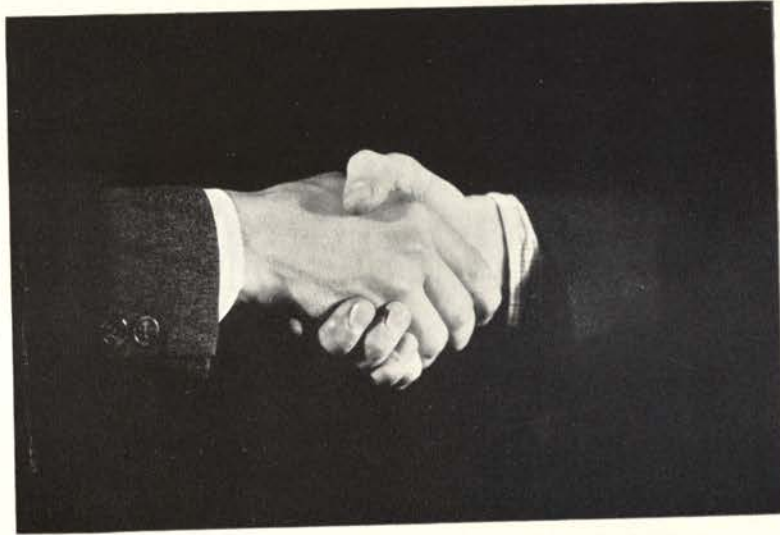


IN THE HEART OF THE SAN JUAN MOUNTAINS NEAR TELLURIDE, COLORADO, A REGION RICH IN GEOLOGIC PHENOMENA. IN THE FOREGROUND IS A SERIES OF JURASSIC SEDIMENTARY STRATA AND THE BACKGROUND SHOWS HIGH CLIFFS OF VOLCANIC ROCKS.

Geology

The Geologist is a pioneer, as he opens up new fields for the Mining, Petroleum, and related industries. Although his work is very important he is seldom admitted to the hall of fame. Without his advice much time and money would be spent in developing worthless projects.

His knowledge of formations and rocks leaves nature as an open book before him, as he reads the signs in his hunt for new mines and oil fields.



GAMMA XI OF SIGMA NU



Sigma Nu was founded at Virginia Military Institute by Frank Hopkins, Greenfield Quarles, and James Riley. Although the fraternity actually existed as early as 1866, it was not organized until January 1, 1869. Chapters elsewhere were organized, and by 1903 there were sixty-two active chapters.

Gamma Xi chapter, at Missouri School of Mines, was installed January 23, 1903. This chapter was organized by Ray Rucker, a member of Rho chapter at University of Missouri, and John T. Rice, a member of Gamma Eta chapter at Colorado School of Mines. The installation was held at the Masonic Temple, where ten men, besides the founders, were initiated.

Sigma Nu was the first fraternity on the School of Mines campus, and before the student body understood the purposes of the fraternity, they showed great resentment. Later, good feeling was restored.

Thirty-six men from the Gamma Xi chapter were found under the colors of the United States in the Great World War. Among these were John Thomas Keenan, a major in the Corps of Engineers; Clark C. Bland, a captain in the Infantry, and one of the founders of Sigma Nu, John T. Rice, a captain in the Corps of Engineers.

Men from this chapter may be found in various parts of the world, and many are famous in their professions. A. Emory Wishon is often spoken of as being the biggest man in public utilities on the west coast. Two men from this chapter are members of the faculty of the Missouri School of Mines: Dr. H. H. Armsby, registrar, and Prof. C. J. Millar, professor of Biology.

The Sigma Nus have been among the leaders in campus activities since this chapter was organized. During the past sixteen years, it has had ten football captains, as well as producing leaders in scholarship.

During the thirty years' existence at the Missouri School of Mines, Gamma Xi of Sigma Nu has initiated 255 members.



SIGMA NU

OFFICERS

W. G. TWYMAN
Eminent Commander
R. H. HOFFMAN
Lieutenant Commander
B. E. PEEBLES
Treasurer
A. E. WOERHEIDE
Recorder

ACTIVES

G. H. Breuning
W. E. Bright
R. H. Buck
W. H. Coddington
J. B. Deaderick
R. J. Dobson
W. G. Folsom
E. H. Frauenfelder
O. E. Grewis
H. B. Haddock
A. J. Hoener
R. H. Hoffman
D. R. Howerton
J. McCaw
B. E. Peebles
Neil Plummer
C. W. Snyder
W. G. Twyman
T. W. Wommack
A. E. Woerheide
J. W. Wright

PLEDGES

N. M. Adams
J. S. Artman
A. D. Bliss
J. V. Boland
J. W. Howerton
H. B. McCurdy
J. G. Miller
J. E. Peters
E. W. Simpson
D. Folsom

Artman

Adams

Boland

Breuning

Bliss

Bright

Buck

Coddington

Deaderick

Folsom

Frauenfelder

Grewis

Haddock

Hoener

Hoffman

Holbrook

D. Howerton

J. Howerton

Twyman

McCurdy

Miller

Peebles

Peters

Plummer

Simpson

Snyder

Woerheide

Wommack

Wright



BETA CHI OF KAPPA SIGMA



Kappa Sigma was founded at the University of Virginia, December 10, 1860, by William Grigsby McCormick, George Miles Arnold, Edmund Law Rogers, Jr., Frank Courtney Nicodemus and John Covert Boyd. The founders were not denied the opportunity to become associated with some of the dozen fraternities of the time at the University of Virginia, but three of them, McCormick, Rogers and Nicodemus, had been close friends as young men in Baltimore. They wanted to be together and under the leadership of McCormick decided to found an organization of their own. The relations of these three and Arnold and Boyd were so close, they have always been known in the literature and tradition of the fraternity as the "five friends and brothers."

The original Constitution names the fraternity Kappa Sigma, describes the badge, and gives the significance of its parts and of the emblems appearing upon it. The badge, designed by the founder, Rogers, has never been changed.

Among the lead and zinc mines of Southwestern Missouri, the Missouri School of Mines, at Rolla, was under informal consideration from the time of the fraternity's first entrance into the State. A suggestion that the School of Mines, being a part of the State's educational system, might be entered through a branch of Beta Gamma at the State university, this was found impractical. A petition from a group of men at Rolla gained consideration on its own merits, and on December 19, 1903, the chapter was formally installed. Representatives of the three chapters in Missouri and the one in Arkansas took part in initiating the ten charter members of Beta Chi. In 1927 the chapter bought its house.





First Row: Hassel, Sullivan, Cooke, Haines, Rasor, Abbett, Aschen
 Second Row: VonWehrden, Tistadt, Finley, Kopp, Ruemmler,
 Cardosi, Hubbard
 Third Row: Millice, Waddell, Schaumburg, Frame, Daily

KAPPA SIGMA

OFFICERS

A. E. DAILY	- - - - -	<i>Grand Master</i>
J. P. RASOR	- - - - -	<i>Grand Procurator</i>
W. F. COOKE	- - - - -	<i>Grand Master of Ceremonies</i>
G. W. SCHAUMBURG	- - - - -	<i>Grand Scribe</i>
W. L. SULLIVAN, JR.	- - - - -	<i>Grand Treasurer</i>

ACTIVES

P. A. Abbett
 W. F. Cooke, Jr.
 A. E. Daily
 E. L. Dudley
 T. S. Finley, Jr.
 J. W. Frame

F. N. Haines
 J. R. Hubbard
 C. T. Millice, Jr.
 J. P. Rasor
 G. W. Schaumburg
 W. L. Sullivan, Jr.

PLEDGES

R. H. O. Aschen
 A. Cardosi
 W. M. Francis

F. Hassel
 W. A. Kopp
 W. P. Ruemmler

H. A. Tistadt, Jr.



ALPHA KAPPA OF PI KAPPA ALPHA



Pi Kappa Alpha was founded at the University of Virginia on March 1, 1868, by Frederick Southgate Taylor, Littleton Waller Tazewell, Julian Edward Wood, James Benjamin Sclater, Jr., Robertson Howard, and William Alexander. The founders had long been intimate friends, having served in the Confederate Army together and some of them having attended Virginia Military Institute together. The first idea and conception of the fraternity took place at V. M. I. shortly after the battle of New Market, in which the cadets of that school took such an active part.

The fraternity rapidly expanded throughout the South, and six other chapters were established during the first ten years. The fraternity was never sectional but tended to limit its expansion to the Southern States until 1909.

Alpha Kappa Chapter was installed on the Missouri School of Mines campus on December 2, 1905. Installation was held in a house that the new chapter had rented and seven men formed the list of initiates.

The new fraternity met with much opposition at first from the other houses as they believed that there was not room for another group on the campus. The charter members, however, proceeded to furnish their new home and soon the animosity died and all of the fraternities were working in harmony.

Thirty-six men from Alpha Kappa saw service during the war. Numbered among those who rose to rather high positions are: Col. W. F. Siegmund, Field Artillery; Major T. S. Dunn, Engineer Corps; Captain J. M. Goldman; Lt. W. C. Zeuch.

Outstanding graduates from Alpha Kappa are E. R. Needles, noted bridge engineer; Ray G. Knickerbocker, well known metallurgist; D. H. Radcliffe, wealthy oil-well operator; Ira L. Wright, prominent mining engineer, and H. T. Mann, professor at M. I. T. Members of the fraternity who are on the School of Mines faculty include W. C. Zeuch, M. D. Orten and J. C. Cullison.

Alpha Kappa has always been outstanding in campus activities, producing more Miner Editors than any other group. Other fields of activity of the chapter include athletics, with eight letters being won this year, the Rollamo, and honorary societies. In its nineteen years on the campus Alpha Kappa of Pi Kappa Alpha has initiated 233 men.



PI KAPPA ALPHA

OFFICERS

H. J. PFEIFER
S. M. C.

W. O. NEEL
I. M. C.

W. A. HOWE
Th. C.

R. C. LANGE
S. C.

Baxter

Clanton

Dickinson

De Roy

Gould

Holtman

Holman

Howe

Hoyt

Jameson

Kelsey

Lange

Nations

Neel

Nelson

Pfeifer

Potter

Richmond

Silver

Weaver

ACTIVES

T. L. Baxter
J. R. Clanton
G. L. W. DeRoy
G. W. Dickinson
E. P. Gould
O. K. Holman
W. A. Howe
R. C. Lange
G. O. Nations
W. O. Neel
H. J. Pfeifer
P. E. Silver
W. E. Walker
J. B. Weaver

PLEDGES

R. J. Elgin
O. J. Holtman
C. C. Jameson
E. E. Kelsey
H. C. Moody
D. W. Nelson
J. O. Potter
C. T. Richmond, III



ALPHA IOTA OF SIGMA PI



Sigma Pi was founded at the Vincennes University in 1897. The Missouri School of Mines Chapter of Sigma Pi was installed on April 29, 1933, from what had formerly been the Prospector Club.

In the Fall of 1913 a group of sixteen upper classmen at the Missouri School of Mines and Metallurgy, not affiliated with any of the local social fraternities, but realizing the desirability of such affiliation, organized and founded the Prospector Club. The specific purpose of the organization, as stated in the original Constitution, was "To foster good fellowship among its members, and to frankly strive to promote the interest of the members and of the School of Mines." Arrangements were all completed by January, 1914, and recognition by the school was obtained.

At the outbreak of the World War, practically the entire membership of the Club enlisted, leaving the Club with but a handful of members. These managed to keep the spirit of the organization alive, and in 1919 the Club was successfully reorganized. In 1922 it was incorporated under the Fraternity laws of the State of Missouri, and that is its present status.

The Alpha Iota Chapter of the Sigma Pi Fraternity was installed at the Missouri School of Mines on April 29, 1933.

The Fraternity was first known as Tau Phi Delta. On February 11, 1907, the eight active members of Tau Phi Delta met at the chapter house and changed the name of the organization to Alpha Chapter of the Sigma Pi Fraternity of the United States, the changes thereby wrought were by no means as radical as might appear upon first thought. The circumstances which led to the selection of the name of Sigma Pi and the discarding of that of Tau Phi Delta were most unusual and are probably unprecedented in the annals of fraternity affairs. They are, however, entirely too complicated and lengthy for discussion in this extract.

With the conclusion of the college year at Vincennes in June, 1909, Alpha Chapter became inactive, although the charter was not withdrawn until the year following. The attendance at the college had decreased to a point where it became very doubtful if suitable material for a fraternity chapter could longer be found and the more aggressive alumni members quite properly concluded to devote their time and energies to the problems of the national organization rather than to attempt to keep the mother chapter alive amid such unpromising surroundings.



SIGMA PI

OFFICERS

C. H. McDONALD
President

J. A. VINCENT
Vice President

R. GARDNER
Secretary

M. E. GREEN
Treasurer

Eggleston

Gardner

ACTIVES

C. H. McDonald

J. A. Vincent

R. Gardner

J. H. Hall

J. C. Settle

M. E. Green

Green

Harwell

PLEDGES

G. A. Harwell

R. Tittel

R. Price

D. F. McCarron

D. Eggleston

Hall

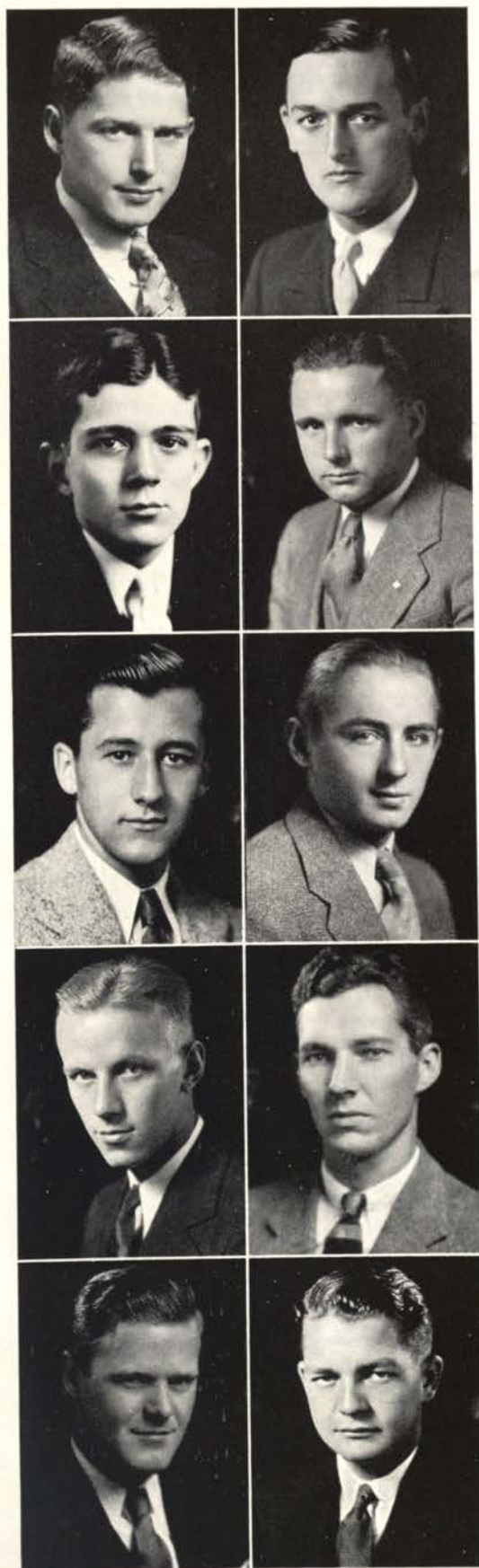
Tittel

McDonald

Price

Settle

Vincent



ALPHA DELTA ZETA OF LAMBDA CHI ALPHA



On September 13, 1913, a group of young men at the Missouri School of Mines founded a local society, naming it The Muckers Club. This club prospered and grew, until after three years of existence, negotiations with the national fraternity, Lambda Chi Alpha, were started with a view to making this local society a chapter of Lambda Chi Alpha. As a result, a new chapter, Alpha Delta Zeta of Lambda Chi Alpha, was installed on the campus on April 21, 1917.

From its very inception as a chapter of Lambda Chi Alpha this group continued the work that enabled them to become associated with a national fraternity, and this pioneer spirit has become a tradition in the chapter.

The chapter has contributed a large number of men, many of whom were leaders, to the campus activities, both athletic and scholastic. Lambda Chi Alpha has always been represented in the various varsity sports and this year has the distinction of contributing two varsity captains, one in basketball, the other in track.

The rolls of the various honor societies contain the names of many Lambda Chi's, some of whom were leaders of their groups, and the campus organizations providing services to the school and to the students, have drawn willing workers from the chapter's ranks.

The chapter has an enviable record in intramural competition, always being known to enter a fighting team in any sport. It is distinctive for its exceptional baseball teams, having won the intramural championship for the past three years and promises another winning team this year. In 1930-1931 the chapter won the all athletics intramural trophy, in addition to the baseball championship.

The chapter has always ranked high in scholarship and has twice won the Tau Beta Pi Scholarship Trophy.

Lambda Chi Alpha presents a well rounded history, and with its present strength of nineteen members and eight pledges it bids fair to continue that movement started on September 13, 1913, which has placed Lambda Chi Alpha's name among the foremost of the campus organizations.



LAMBDA CHI ALPHA

OFFICERS

J. W. MASHEK
President

G. A. PENZEL
Vice President

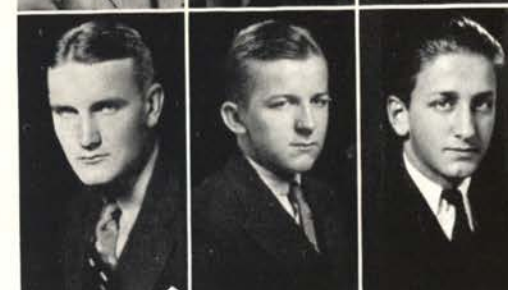
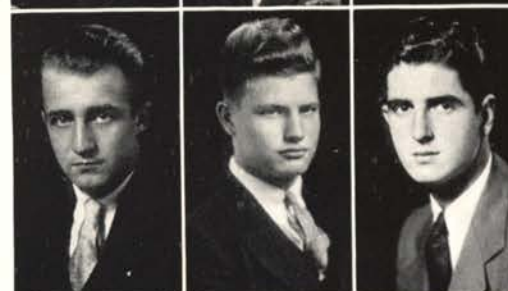
R. M. SPRINGER
Secretary

P. D. HOUSEKNECHT
Treasurer

Beckman

Bentley

Bommer



MEMBERS

H. R. Bentley
R. R. Kaley
J. L. McGregor
R. W. Simmons
E. H. Reed
K. A. Allebach
R. W. Johnson
F. W. Klee
W. K. Rodman
A. L. Worseck
T. J. Bommer
M. Johnson

Collins

Dods

Klee

Houseknecht

E. Johnson

R. Johnson

PLEDGES

C. G. Collins
A. K. Shores
S. E. Johnson
S. Dods
R. A. Beckman
F. B. Persels

M. Johnson

Kaley

Mashek

Penzel

Persels

Reed

Simmons

Springer

Worseck



TRIANGLE FRATERNITY



Triangle, a fraternity of engineers, is an organization devoted to high attainment personally and professionally in the field of engineering, through the medium of brotherly communion among the men who comprise its membership. It is a national collegiate fraternity which affords its members all the advantages of fraternal life while in school, and perpetuates that spirit of brotherhood beyond college days by virtue of a common interest in the profession of engineering.

The chapter is governed locally by an elected group of officers taken from its active membership. This gives the young Triangle man an opportunity to develop his executive ability while an undergraduate, thereby supplementing his technical training to the extent of making him familiar with business and management.

There exists a national administrative group of alumni, who keep in very close touch with all the chapters and help them in an advisory capacity. Each chapter also has a group of honorary members upon whom it depends for advice in its more difficult problems. The honorary members of the Missouri Mines chapter are: Professor Carlton, of the Civil Engineering Department; Professor Walsh, of the Metallurgy Department, and Professor Dodd, of the Ceramics Department.

The fraternity was founded at the University of Illinois on April 15th, 1907, by a group of six civil engineering students. There are now fifteen chapters of Triangle, located at the following universities: Illinois, Purdue, Ohio State, Wisconsin, Kentucky, Cincinnati, Iowa, Minnesota, Armour Institute of Technology, Michigan, Kansas, Missouri School of Mines, Pennsylvania State College and South Dakota School of Mines. These schools are representative among the outstanding engineering institutions of the United States.

Triangle Fraternity has grown out of the small nucleus of six junior civil engineering students who found that they had sufficient interests in common to form a club and live together during their senior year at Illinois University. There are now over two thousand Triangle men who have received their engineering degrees and most of whom are now following the engineering profession.

This chapter of Triangle was installed on December 10, 1927. Before then the organization constituted the Grubstaker Club, one of the older local clubs, founded September 15, 1902. It is the only professional fraternity on the campus that maintains a chapter house, and in addition offers all the advantages of a social fraternity.



TRIANGLE

OFFICERS

J. P. SLOSS
President

H. B. ATKINSON
Vice President

J. E. HARROD
Recording Secretary

H. G. THOMPSON
Corresponding Secretary

R. A. MACKE
Treasurer

R. M. BEARD
Steward

ACTIVES

H. B. Atkinson

R. M. Beard

H. T. Bock

O. H. Fager

D. F. Grimm

J. E. Harrod

R. A. Macke

M. F. Mathes

C. A. Mitchell

T. M. Patten

J. P. Sloss

H. G. Thompson

PLEDGES

J. W. Aittama

K. R. McEntire

R. G. Prough

J. C. Radcliffe III

R. C. Reese

M. A. R. Spahr

M. K. Smart

E. J. Spitzer

H. G. Stogsdill

Aittama

Beard

Fager

Grimm

Harrod

Mathes

Mitchell

Patten

Prough

Radcliffe

Reese

Sloss

Smart

Spitzer

Thompson



MERCIER FRATERNITY



The Mercier Fraternity, whose corporation title is the Order of Cardinal Mercier, may trace its origin, at least in embryo, to a meeting of the Catholic students of the Missouri School of Mines in April, 1925. Father S. P. Stocking, the local pastor, proposed the idea and promised to assist in financing it if a sufficient number of independent Catholic students could be found to make it practical.

The fraternity was formally organized on September 12, 1925, with seven charter members and eleven pledges. The charter members were: Bennet R. Thompson '26, Bernard A. Costello '26, John E. Weber '27, Ameda V. Peugnet '27, Roy J. Gunther '27, Paul A. Hallasey '28, and J. Hugh Tobin '28. A constitution was drawn up by the members of the organization, and the approval of the faculty and of the Senior Council of the Missouri School of Mines was secured in the fall of that year. In December of the same year the fraternity was incorporated under the laws of Missouri as an educational, religious, fraternal, and charitable organization.

In January, 1926, the first pledges were initiated and the purchase of a home was considered. After looking over the available properties in town, the members purchased the beautiful and spacious home and grounds which the fraternity now occupies.

The fraternity chose for its patron, His Eminence, Desire Cardinal Mercier, Archbishop of Malines and Primate of Belgium, because of his prominence as a Catholic Churchman, philosopher and educator, and because of his patriotism in defense of his country during the World War. He seemed the highest ideal for Catholic students to whom membership in the Mercier Fraternity is limited.

The list of honorary members of the Mercier Fraternity includes Mr. Luke E. Hart, St. Louis; Mr. J. K. Walsh, St. Louis; Mr. R. P. Cummins, Jefferson City; Father C. B. Faris, St. Louis, and Father J. B. Little, Sullivan, Mo.



MERCIER

OFFICERS

H. J. HAFFNER
President

A. T. AYLWARD
Vice President

C. S. MARXER
Secretary

N. J. GILSDORF
Steward-Treasurer

F. Arnold

R. Arnold
Aylward

ACTIVES

F. W. Arnold

A. T. Aylward

R. Cardette

W. E. Dennis

N. J. Gilsdorf

L. Gleason

H. J. Haffner

C. S. Marxer

P. F. Mattei

J. W. McLaughlin

J. J. Murphy

R. Schmidt

J. F. Vahle

Campbell

Cardetti
Dennis

Gilsdorf

Gleason
Haffner

Long

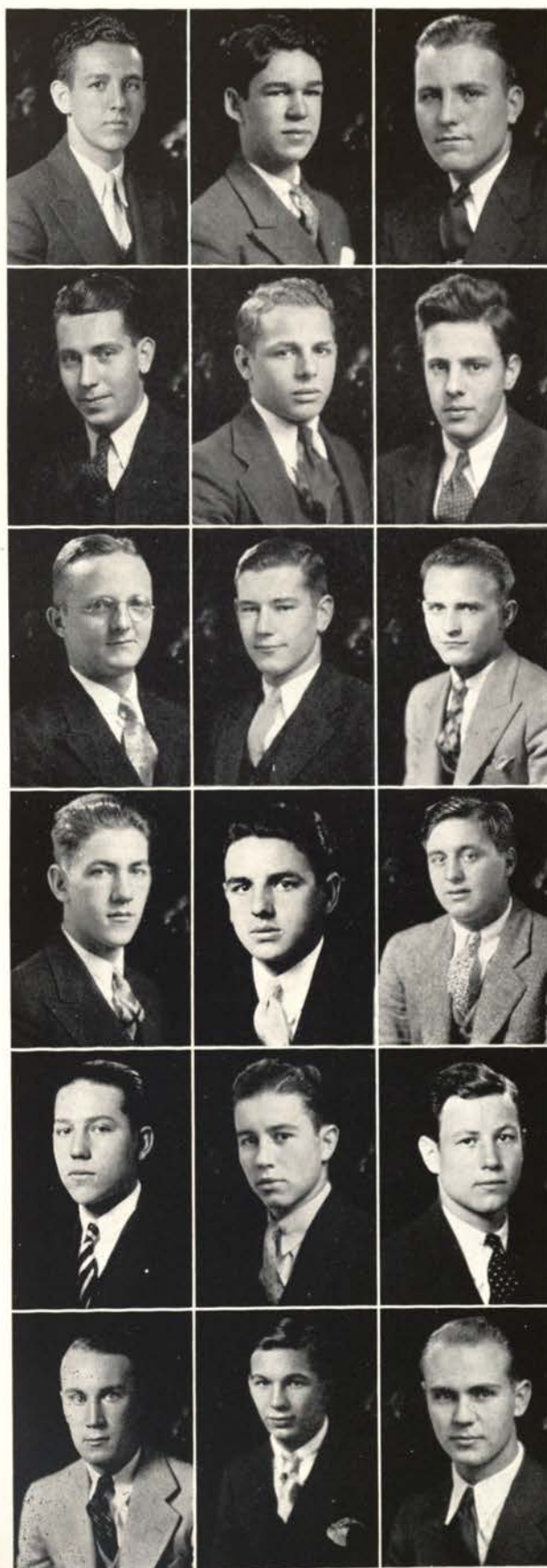
McLaughlin
Mattei

Marxer

F. Murphy
J. Murphy

Scheer

Schmidt
Vahle

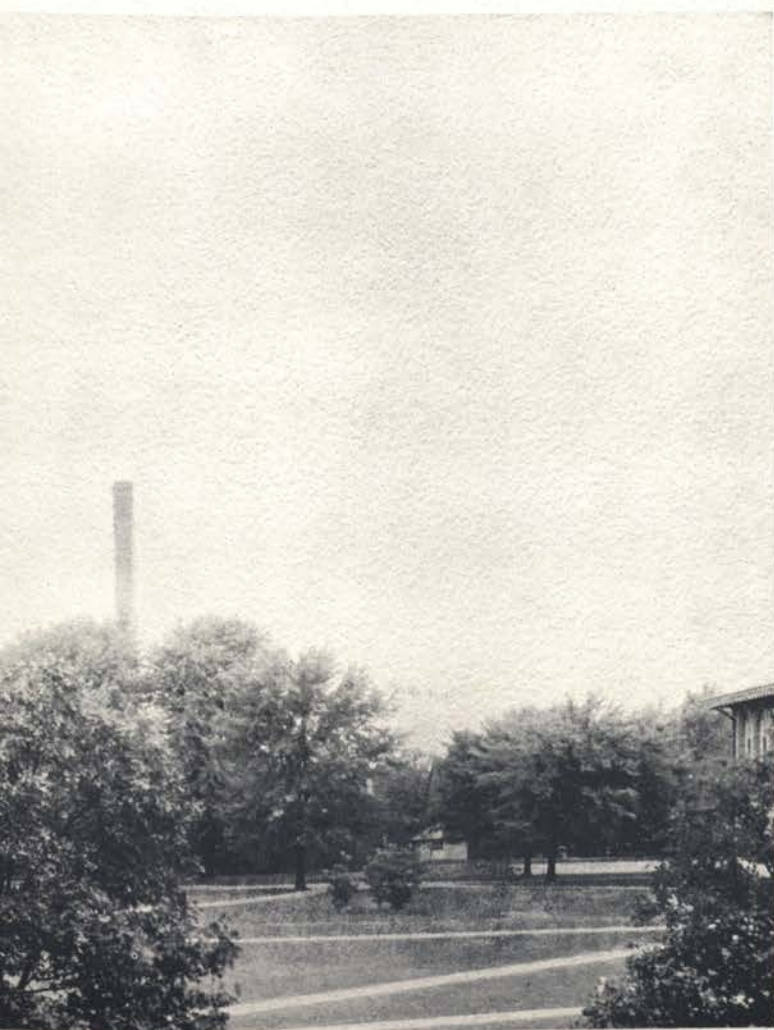


Fraternalism is symbolic of friendship, friendship that is so vital to life. In our fraternities we come into close contact with men whose interests, ambitions, and ideals are similar to our own and a strong friendship is kindled. By personal contact we learn to cooperate and make sacrifices to help our friends. Long after college days are over we may look back to our fraternity with pride and look forward to many happy hours with the friends we never lose.





INTRODUCING THE CAMPUS ORGANIZATIONS

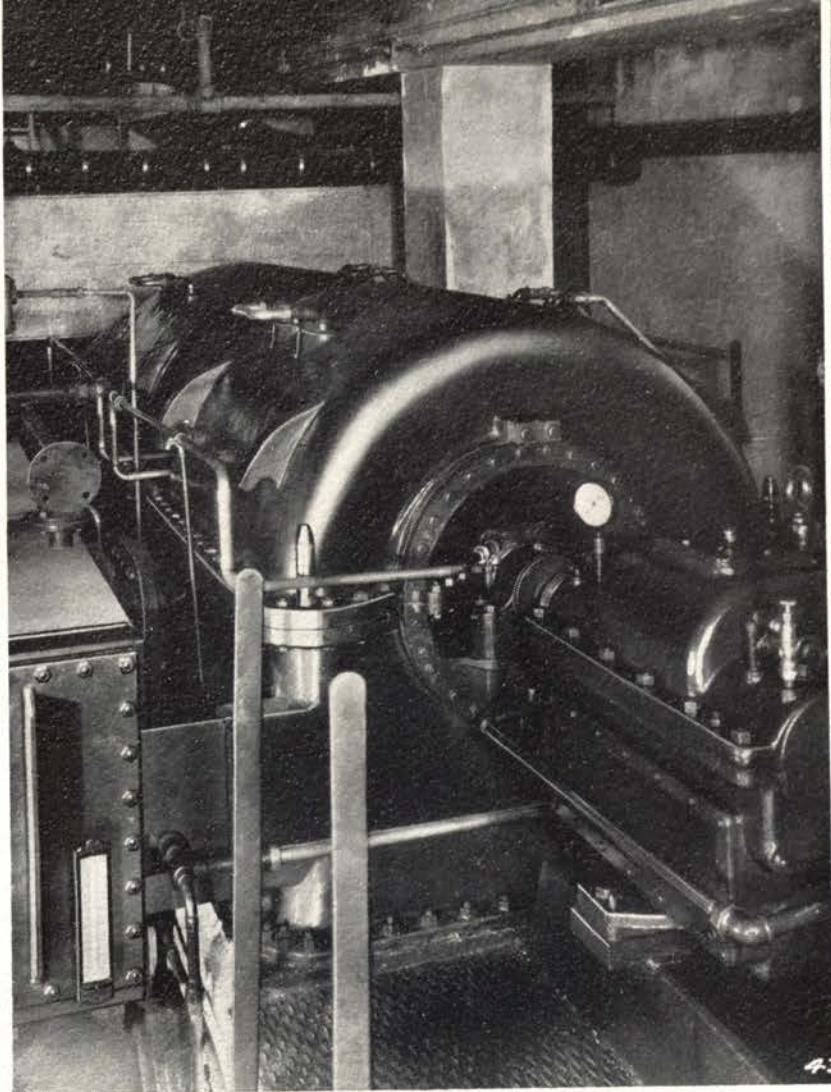


THIS SECTION OF THE ALL-SCHOOL EDITION
OF THE ROLLAMO IS DEDICATED TO
THE DEPARTMENT OF

MECHANICAL ENGINEERING



AG



A WATER VAPOR REFRIGERATING UNIT



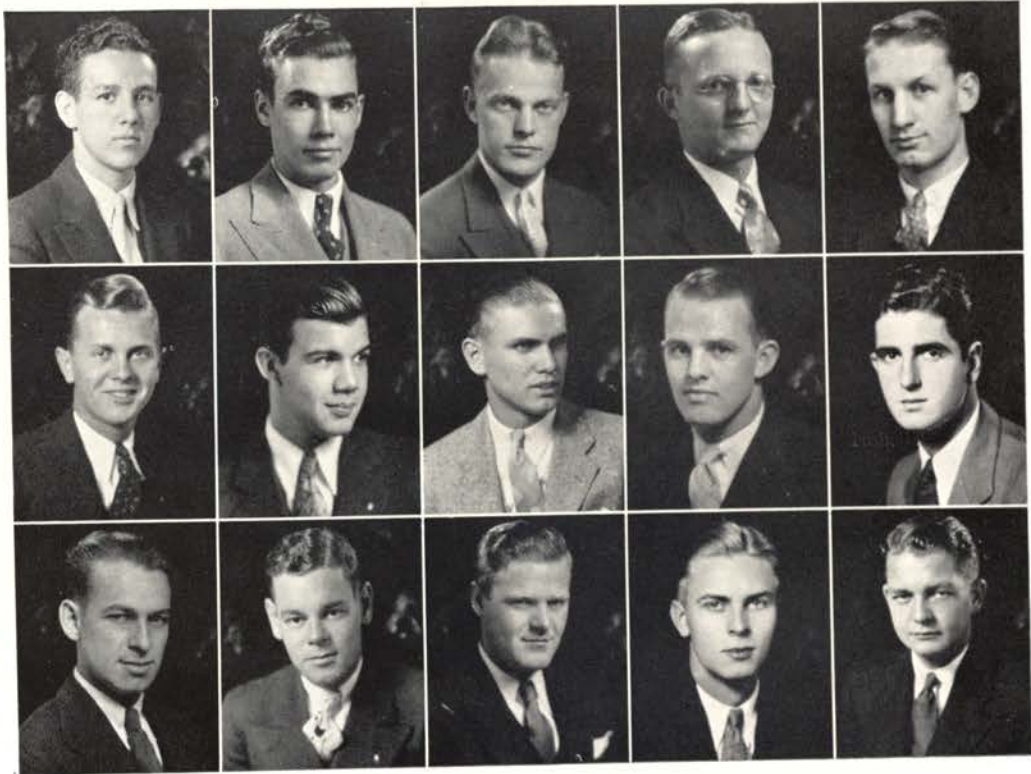
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Mechanical

To the Mechanical Engineer we owe many of our modern comforts. The streamlined train, air conditioned cars, and thousands of other conveniences are credited to their ingenuity.

They create comfort and style out of raw iron and steel. They are the nation's builders.





Arnold
Hanson
McDill

Fisher
Harrod
Nations

Folsom
Howe
Settle

Gilsdorf
Howerton
Simmons

Grimm
Johnson
Vincent

ST. PAT'S BOARD

OFFICERS

J. E. HARROD	-	-	-	-	-	<i>President</i>
W. H. McDILL	-	-	-	-	-	<i>Vice President</i>
W. A. HOWE	-	-	-	-	-	<i>Secretary</i>
N. J. GILSDORF	-	-	-	-	-	<i>Treasurer</i>
D. R. HOWERTON	-	-	-	-	-	<i>Dance Chairman</i>

MEMBERS

McDill, W. H.	-	-	-	Independent
Fisher, R. L.	-	-	-	Independent
Solomon, R. C.	-	-	-	Kappa Alpha
Hanson, K. O.	-	-	-	Kappa Alpha
Haines, F. N.	-	-	-	Kappa Sigma
Rasor, J. P.	-	-	-	Kappa Sigma
Johnson, R. W.	-	-	-	Lambda Chi Alpha
Simmons, R. W.	-	-	-	Lambda Chi Alpha
Gilsdorf, N. J.	-	-	-	Mercier

Arnold, F. W.	-	-	-	-	Mercier
Howe, W. A.	-	-	-	-	Pi Kappa Alpha
Nations, G. A.	-	-	-	-	Pi Kappa Alpha
Howerton, D. R.	-	-	-	-	Sigma Nu
Folsom, W. G.	-	-	-	-	Sigma Nu
Settle, J. C.	-	-	-	-	Sigma Pi
Vincent, J. A.	-	-	-	-	Sigma Pi
Harrod, J. E.	-	-	-	-	Triangle
Grimm, D. F.	-	-	-	-	Triangle

The St. Pat's Board was established in 1930 as the governing body of this the outstanding social event of our campus.

The board is made up of eighteen men, consisting of a Junior and Senior representative from each social fraternity, and two independents, thus giving a good cross section of the student body. The board handles all the matters pertaining to the annual social event known as St. Pat's.

During the five years the organization has been in control, it has proven itself one of the outstanding, most efficient and best managed organizations on this campus.





Gilsdorf

Sloss

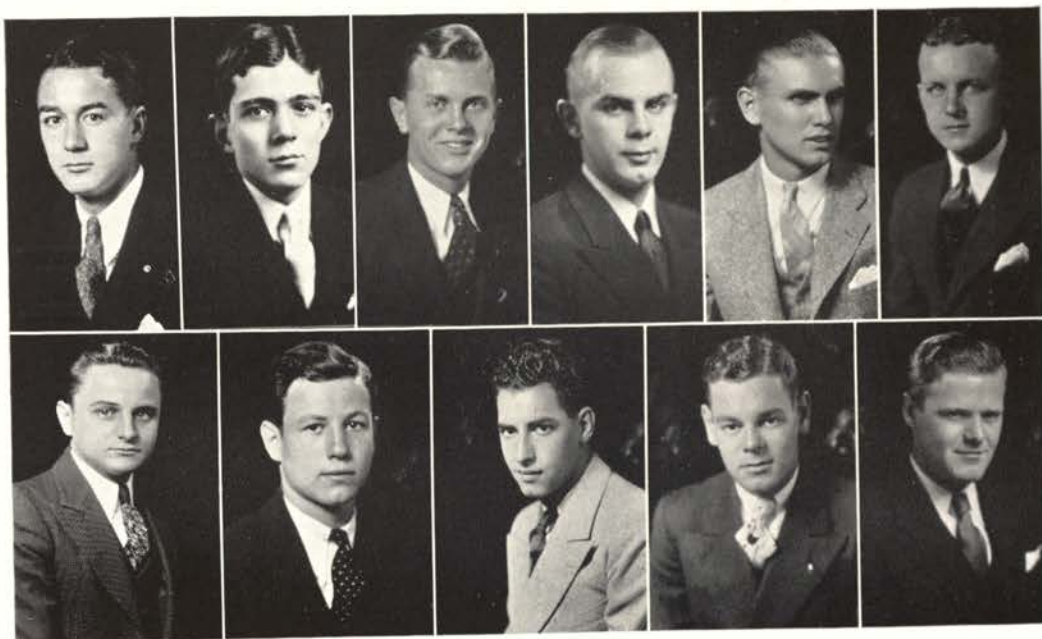
ROLLAMO BOARD

N. J. GILSDORF	-	-	-	-	-	<i>Editor in-Chief</i>
J. P. SLOSS	-	-	-	-	-	<i>Business Manager</i>
W. H. CODDINGTON	-	-	-	-	-	<i>Organizations</i>
J. J. MURPHY	-	-	-	-	-	<i>Advertising</i>
W. O. NEEL	-	-	-	-	-	<i>Sports</i>
J. C. SETTLE	-	-	-	-	-	<i>Humor</i>

MEMBERS

W. H. Coddington
 N. J. Gilsdorf
 M. E. Green
 K. O. Hanson
 W. H. Howe
 O. W. Kamper
 J. J. Murphy
 W. O. Neel
 J. P. Sloss
 J. C. Settle
 O. K. Holman
 G. O. Nations
 R. H. Hoffman
 M. W. Turken





First Row: Coddington, Green, Hanson, Hoffman, Howe, Kamper
Second Row: Turken, Murphy, Neel, Nations, Settle

ROLLAMO BOARD

The Rollamo Board has as its sole purpose the composing and publishing of the Rollamo, not only for the students, but for the alumni, and anyone who is interested in a history of the school year, that is in a printed form so that it can be preserved for future years.

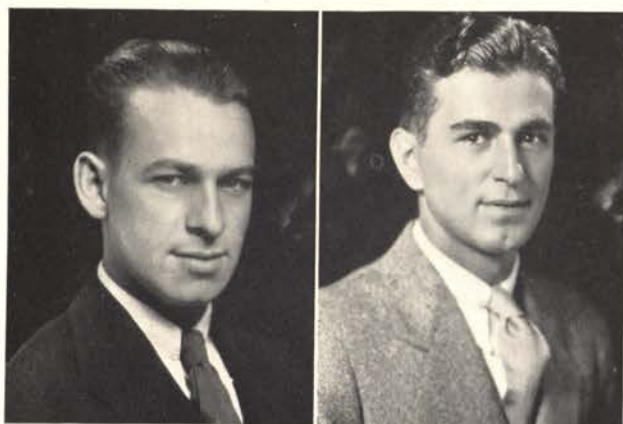
Election to the board is possible only for those who have done their work to the entire satisfaction of the board. Tryouts are usually taken from the sophomore class. This is due to the fact that much of the work to be done requires a working knowledge of the campus, and a freshman can hardly be expected to have this, hence it is impossible for him to do the work satisfactorily.

The board elects the Editor and Business Manager for the succeeding year, and they in turn appoint the other officers to the respective positions.

It is the constant aim of the Rollamo Board to give to the student body an annual that will represent a true cross-section of the school activities for that year. There are only two methods of doing this, and they are by the use of pictures or printed material. In the 1935 Rollamo we have tried to combine these two methods in order that there might be a happy medium between them, and in this manner develop a balanced book.

We hope that you will enjoy this, the 1935 Rollamo, as much today as you will in the years to come.





McDill

Hoyt



MISSOURI MINER STAFF

W. H. McDILL	- - - - -	<i>Editor-in-Chief</i>
H. K. HOYT	- - - - -	<i>Business Manager</i>
W. A. HOWE	- - - - -	<i>Managing Editor</i>
G. L. DE ROY	- - - - -	<i>Sports Editor</i>
H. L. HARMON	- - - - -	<i>Contributing Editor</i>
O. W. KAMPER	- - - - -	<i>Exchange Editor</i>
A. J. HOENER	- - - - -	<i>Circulation Manager</i>

ASSOCIATE EDITORS

James Vincent
O. K. Holman

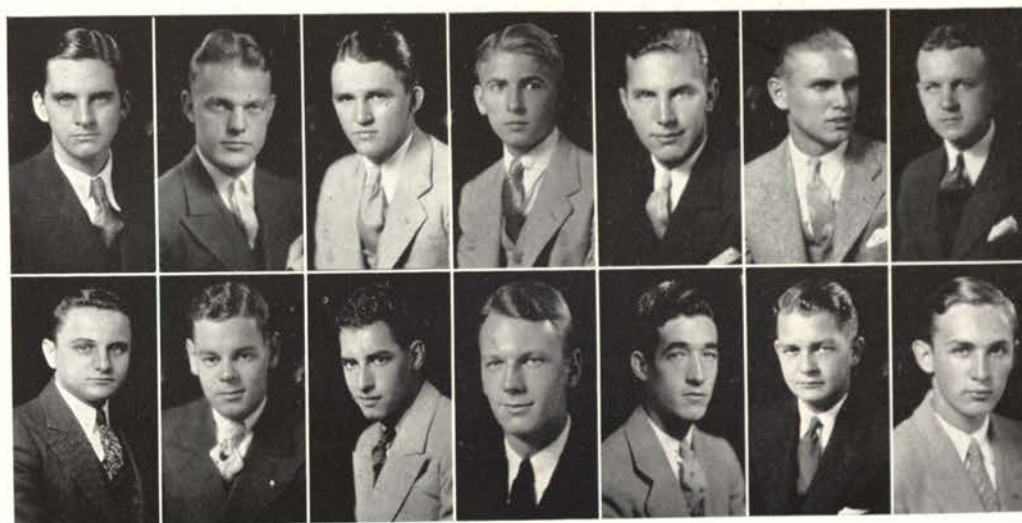
G. Nations
W. R. Jarrett

MEMBERS OF THE BOARD

W. H. McDill
H. K. Hoyt
W. A. Howe
G. L. De Roy
H. L. Harmon
O. W. Kamper
B. E. Peebles
A. J. Hoener
James Vincent
O. K. Holman
George Nations

W. R. Jarrett
A. E. Woerheide
Wendell Folsom
M. W. Turken
H. J. Haffner
J. H. Menefee
J. P. Rasor
R. E. Schneider
J. B. Deaderick
P. D. Houseknecht





DeRoy
Turken

Folsom
Nations

Harmon
Neel

Hoener
Peebles

Holman
Peters

Howe
Vincent

Kamper
Woerheide

THE MISSOURI MINER

The Missouri Miner is a student newspaper published weekly for the benefit of the students, alumni and faculty. The student group in charge of this publication constitute the Miner Board.

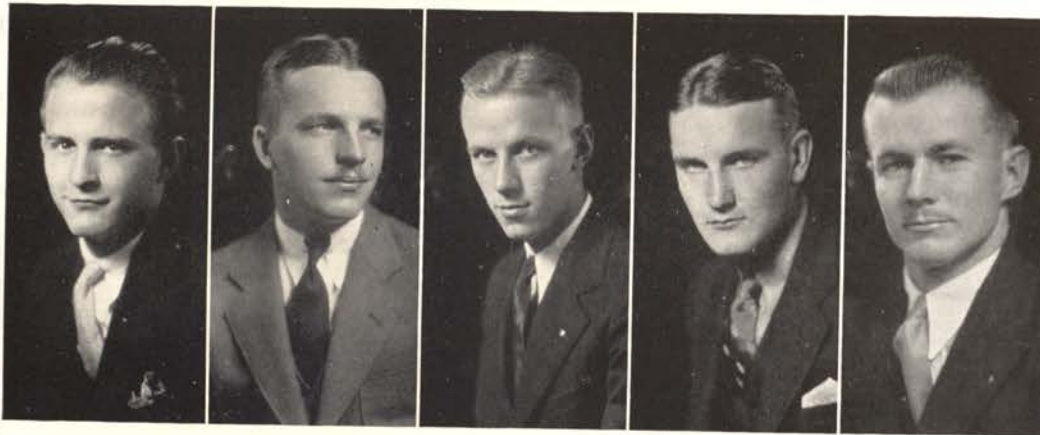
All business concerning membership to board, officials of Missouri Miner and publishing of Missouri Miner is handled by the Miner Board. To become a member of the board a student must first complete one year as a try-out and during this period turn in one hundred and fifty column inches of approved copy or work equivalent to this amount, and having fulfilled this requisite to be elected to the board by a majority vote of the Miner Board at the spring election.

The board elects officers from its own group to handle the publishing of the Missouri Miner. The officers hold office for one year. All business meetings of the board are presided over by the Editor with each member present entitled to one vote.

All members of the board after one year's membership receive a matrix with their position on the paper's staff engraved on the back. Each year all matrixes are re-engraved, adding to each member's matrix the position held during the past year.

The board is composed of four departments, each having a manager who in turn is responsible to the Editor, who is in charge of the first department as well, namely, Editorial; the other departments being Business, Advertising, and Circulation.





Haffner

Haines

McDonald

Penzel

Sloss



INTERFRATERNITY COUNCIL

G. A. PENZEL	- - - - -	<i>President</i>
H. J. HAFFNER	- - - - -	<i>Vice President</i>
F. N. HAINES	- - -	<i>Secretary and Treasurer</i>

F. N. Haines	- - - - -	Kappa Sigma
G. A. Penzel	- - - - -	Lambda Chi Alpha
H. J. Haffner	- - - - -	Mercier
C. H. McDonald	- - - - -	Sigma Pi
J. P. Sloss	- - - - -	Triangle

FACULTY ADVISORS

Professor E. W. Carlton

Professor C. Y. Clayton

The Interfraternity Council is a governing body whose membership consists of representatives from each of the five social fraternities on the School of Mines campus. The council was organized for the mutual needs of the fraternities and acts on rushing and social and athletic activities between the fraternities.

The council members are elected by their fraternities to serve one year, each fraternity having one representative. The representative, on all matters coming before the council, presents the feelings of his fraternity and each fraternity abides by any ruling of this council.

The Interfraternity Council strives to promote and maintain good feeling and harmony between the fraternities and between the fraternity and non-fraternity groups on our campus. The Interfraternity Ball and other interfraternity activities are promoted by the council.





First Row: Beard, Dallmeyer, Fager, Fischer, Folsom, Gilsdorf, Haines
 Second Row: Hanson, Harmon, Harrod, Hoffman, Haffner, Holtman, Howe
 Third Row: Hubbard, Mashek, Neel, Nolde, Penzel, Pfeifer, Simmons, Snyder

BLUE KEY FRATERNITY

OFFICERS

H. J. HAFFNER	- - - - -	<i>President</i>
H. D. DALLMEYER	- - - - -	<i>Vice President</i>
G. T. NOLDE	- - - - -	<i>Corresponding Secretary</i>
W. O. NEEL	- - - - -	<i>Recording Secy. and Treasurer</i>
C. W. SNYDER	- - - - -	<i>Alumni Secretary</i>

MEMBERS

R. M. Beard
 E. L. Dudley
 O. H. Fager
 M. M. Fischer
 W. G. Folsom
 N. J. Gilsdorf
 F. N. Haines

K. O. Hanson
 H. L. Harmon
 J. E. Harrod
 R. H. Hoffman
 L. W. Holtman
 W. A. Howe
 J. R. Hubbard

D. F. McCarron
 J. W. Mashek
 G. A. Penzel
 H. J. Pfeifer
 R. W. Simmons
 R. H. Striker

Blue Key is a non-social society and national honor fraternity. It is an outgrowth of Satyrs. It has for its principles: the promotion of campus activities, the entertainment of athletic contests, the printing of programs for these contests, and other duties needed to promote a greater feeling of school spirit.





R. O. T. C. BAND

E. W. SIMPSON - - - - - *Drum Major*
 JOHN W. SCOTT - - - - - *Musical Director*

Baritones

J. W. Aittama
 J. J. Sheppard

Clarinets

C. S. Abschier
 R. M. Beard
 L. D. Blish
 John Long
 H. T. Bock

Altos

H. D. Dallmeyer
 R. P. Cherry
 G. C. Moreland

Basses

J. G. Miller
 R. C. Lange
 F. E. Harr

Saxophones

W. R. Rodman
 R. C. Tittel
 E. V. Porter

Piccolo

E. W. Simpson

Drums

D. R. Howerton
 S. S. Smith

Trombones

R. C. Solomon
 F. M. Mueller
 F. A. Wonn
 R. C. Tiede

Trumpets

W. H. Coddington
 R. L. Wilkinson
 J. R. Clanton
 R. C. Cornet
 C. C. Massie
 C. A. Mitchell
 F. C. Appleyard





ALPHA PSI OMEGA

R. D. DALLMEYER - - - - - *President*
R. E. HOFFMAN - - - - - *Vice President*
F. J. ZVANUT - - - - - *Secretary-Treasurer*

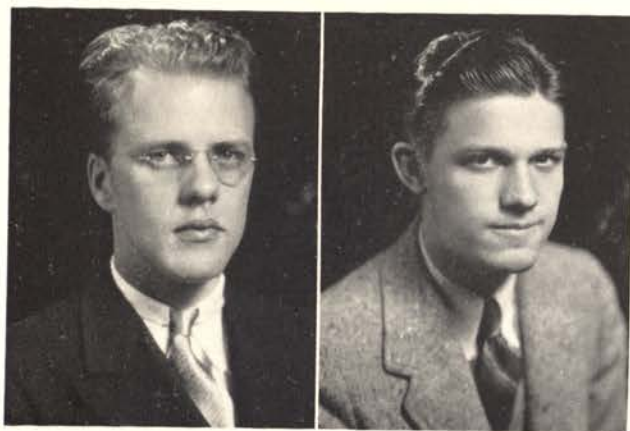
MEMBERS

R. J. Dobson
J. D. Martin
J. W. Aittama
A. Alper
J. B. Deaderick
J. R. Long
E. W. Simpson
M. W. Turken
Margaret Mann

In the fall of 1921 the M. S. M. Players was organized by a few men interested in dramatics. A constitution was written and adopted and the players have given many good performances.

In the fall of 1934 the Players became a chapter of Alpha Psi Omega, a national dramatic fraternity. Although the chapter is small, it is very active and has given several good performances during the past school year.





Twyman

Snyder

ATHLETIC ASSOCIATION

OFFICERS

C. W. SNYDER	-	-	-	-	-	-	<i>President</i>
W. G. TWYMAN	-	-	-	-	-	-	<i>Business Manager</i>

JUNIORS

Alan Hoener
Jack Wright

SOPHOMORES

Bud Scheer
Harold Bentley

FRESHMAN TRYOUTS

A. W. Kuhlman
R. Scarborough
D. Nunnely
B. McCurdy
Ralph Arnold
Jack Long
E. Ballman
E. W. Nelson
C. T. Richmond
F. G. Murphy





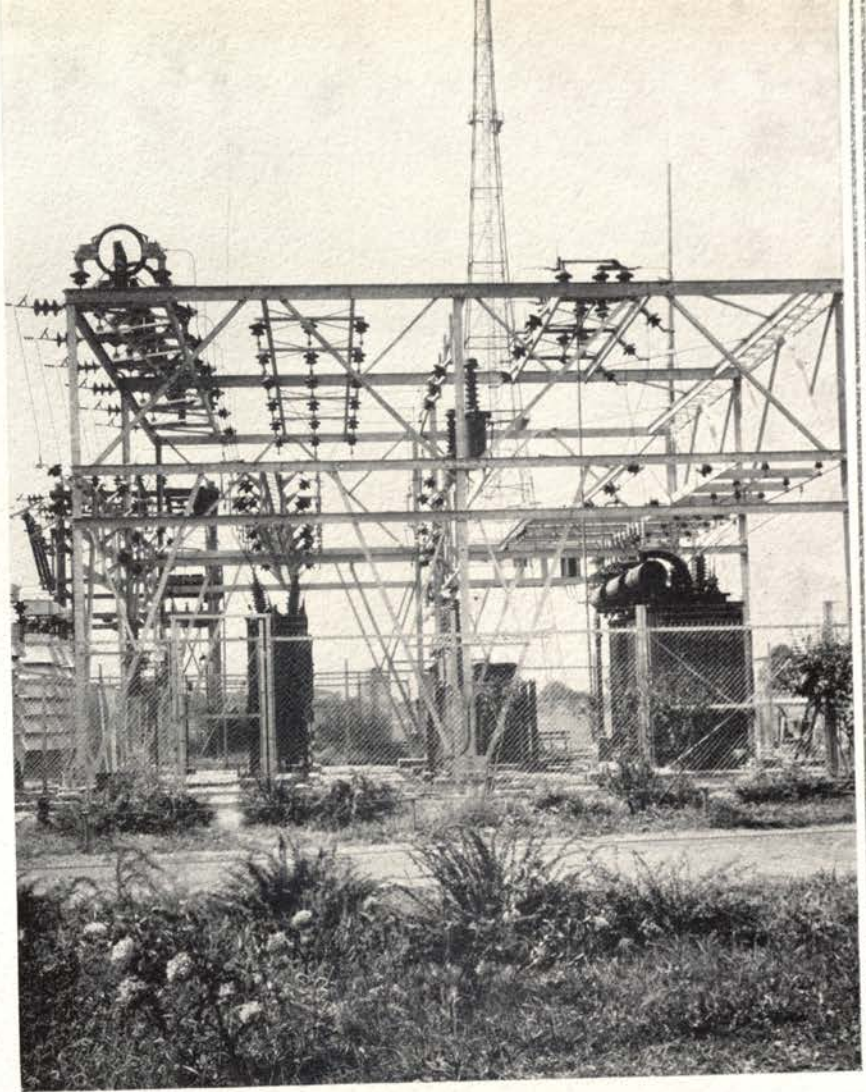
INTRODUCING THE MILITARY
CORPS, THE OFFICERS, AND
THE MILITARY BALL



THIS SECTION OF THE ALL-SCHOOL EDITION
OF THE ROLLAMO IS DEDICATED TO
THE DEPARTMENT OF

ELECTRICAL ENGINEERING





A TRANSFORMER SUBSTATION

Electrical

Electricity—a magic word. It supplies necessities to human lives. Makes life more pleasant in a thousand ways.

Electricity is one of nature's great forces of progress. The availability of economical power brings to the community, to the home, and to industry, a willing and unlimited capacity for good.

A creed of universal service—and behind it stands the Electrical Engineer.



Itschner



Bertram

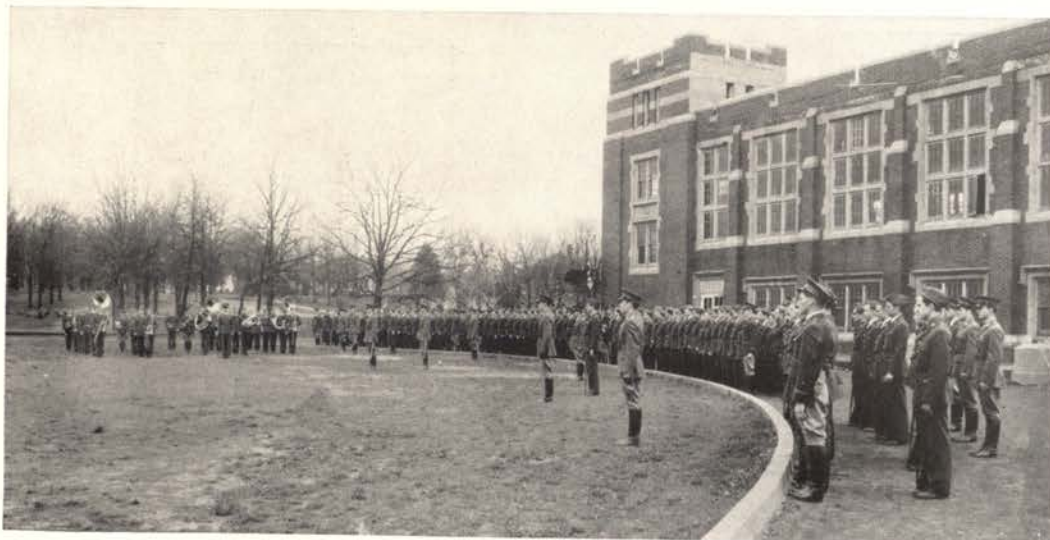
OFFICERS

FIRST LIEUTENANT EMERSON C. ITSCHNER, Corps of Engineers, U. S. A., was graduated from the United States Military Academy at West Point in 1924. He received training in the basic course for one year at the Engineer School at Fort Humphreys, Virginia. Lieutenant Itschner received the degree of Civil Engineer at Cornell University in 1926. He continued his military training at Fort Humphreys, where he was graduated from the Engineers' School Company Officers Course in 1927. Upon completion of this work Lieutenant Itschner was assigned to the Alaskan Road Commission for a period of two years. Later he was stationed with the Sixth Engineers at Fort Lawton, Seattle, Washington. Lieutenant Itschner was appointed Professor of Military Science and Tactics at the Missouri School of Mines in September, 1934.

FIRST LIEUTENANT WALTER HODGE, Corps of Engineers, U. S. A., was graduated from the United States Military Academy at West Point in 1925. Upon graduation he was assigned to Company B, 29th Engineers, where for three years he was engaged in tactical mapping along the Mexican border. In June, 1928, he was assigned as a student to Cornell University, where he graduated in June, 1929, with a degree of Civil Engineer. From here he was transferred to Fort Humphreys, Virginia, where he continued his military training as a student in the Company Officers' Course. In June, 1930, he was ordered to duty with the Alaskan Road Commission. He served here until July, 1932, when he was assigned to the Eighth Engineer Squadron, Fort McIntosh, Texas. Lieutenant Hodge was appointed Assistant Professor of Military Science and Tactics at the Missouri School of Mines in September, 1934.

SERGEANT WILLIAM B. BERTRAM, D. E. M. L., Corps of Engineers, U. S. A., was graduated from the University of Virginia, receiving the degree of LL. B., in 1911. The following year he received a similar degree from Cumberland University. Sergeant Bertram was a practicing lawyer up to the time the United States entered the World War in 1918. He enlisted in the army and served overseas for two years in the Quartermaster's Corps of the Fifty-first Field Artillery and the Coast Artillery Corps. In 1924 he re-enlisted and was assigned to the Second Engineers, where he served until 1928. Sergeant Bertram was assigned to the Missouri School of Mines in January, 1929, to serve as an Instructor in Military Science and Tactics.





R. O. T. C. UNIT

In accordance with the provision of the National Defense Act of 1920, the War Department maintains at the Missouri School of Mines an Engineer Unit of the Reserve Officers' Training Corps. The Officers Reserve Corps is a vitally important element of our national defense as it is expected to furnish the bulk of the officers required in the event of war. The principal source of officers of the reserve corps for all future years is the Reserve Officers' Training Corps. Today many of our universities are the strongholds of the R. O. T. C. The R. O. T. C. division includes a basic course, covering two years, and an advanced course covering two years. Every student physically fit must receive two years' training in the Basic Course of Military Science and Tactics prior to graduation. The Basic Course is designed to give the students in the freshman and sophomore classes instruction in the fundamentals of military training as applied to engineer troops. This instruction includes military history and policy, organization of the army, military discipline, drill and command, rifle marksmanship, map reading, sketching, and combat principles. One-third of the time devoted to military training during the first two years is given to outside work in drill and command and engineering practice. The object of the Advanced Course is to qualify men for a commission in the Engineer Section of the Officers' Reserve Corps. They receive instruction in explosives and demolitions, bridges, field fortifications, combat training, and military law and history. One-fifth of the time is devoted to engineering operations and drill outside the classroom. Aside from the purely military value of the instruction an effort is made to develop in the student an appreciation of promptness, neatness of person, and respect for constituted authority and his responsibilities of leadership. The R. O. T. C. Unit is organized as an engineer battalion of four companies and a band. The cadet officers, and non-commissioned officers above the rank of corporal, are selected from the members of the Advanced Course. Officers and non-commissioned officers are chosen on the basis of individual efficiency and merit. Each year the unit is inspected by a ranking army officer and it has been highly commended on its training and discipline. Irrespective of any military service which these men may render in the future, this military training will be of personal value to them in their industrial or professional careers.





THE ADVANCED CORPS

The Advanced Corps is composed of Juniors and Seniors who have completed the two-year Basic Course in Military Science and Tactics and, having demonstrated outstanding ability and interest in the work, have been selected by the Director of the Missouri School of Mines and the Professor of Military Science to continue their training. The object of the Advanced Corps is to qualify men for a commission in the Officers' Reserve Corps. A student desiring to take advanced training must agree that he will devote five hours per week to the military training prescribed until he completes the advanced course in the Engineer R. O. T. C. Also he must attend a training camp for six weeks before receiving a commission. The advanced course students are equipped with regulation officer's uniform and they receive compensation during the period of the advanced training. The advanced training includes instructions in subjects of a technical nature and of a general educational value such as explosives and demolitions, roads, bridges, law, and history. The responsibilities as a cadet officer develop the student's capacity for leadership and his ability to handle men. The advanced students attend the Sixth Corps Area camp at Fort Riley, Kansas. Upon graduation the student is commissioned by the President of the United States as a Second Lieutenant in the Engineer Officers' Reserve Corps.





THE MILITARY BALL

On Saturday night, February 2nd, Jackling Gym, decorated in modified splendor, was the scene of the second annual Military Ball given by the Officers Club of the Advanced Corps. The decorations were fully in accordance with the propriety of the momentous occasion. The streamers which imitated a huge dome over the dance floor were red and white, the colors of the Engineer Units; while at one end, in order to further add to the occasion, was the one-pound gun and the machine gun. The platform for the coronation was sparkling white with the National Colors and the Battalion Colors furnishing a very fitting and appropriate background. The music for the ball was furnished by Walter Berger and his orchestra.

At the stroke of eleven, with the blare of trumpets and martial strains, the members of the Advanced Corps marched in with their dates, halting on either side of the center of the floor. Then marching through the files of officers and dates, and under arched sabers, came the Battalion Maid of Honor, Miss Dorothy Clark, of Sedalia, Missouri. Following were the Misses Imogene Hinsch and Clella Crews, the Company Maids of Honor, and the Staff Maid of Honor, Miss Maurine Walsh, and last, but by no means least, came lovely and charming Miss Echelmeier, Queen of the Ball. Upon reaching the platform she was presented with a beautiful bouquet, symbolizing her power to reign over her loyal and willing subjects.





INTRODUCING ST. PAT'S

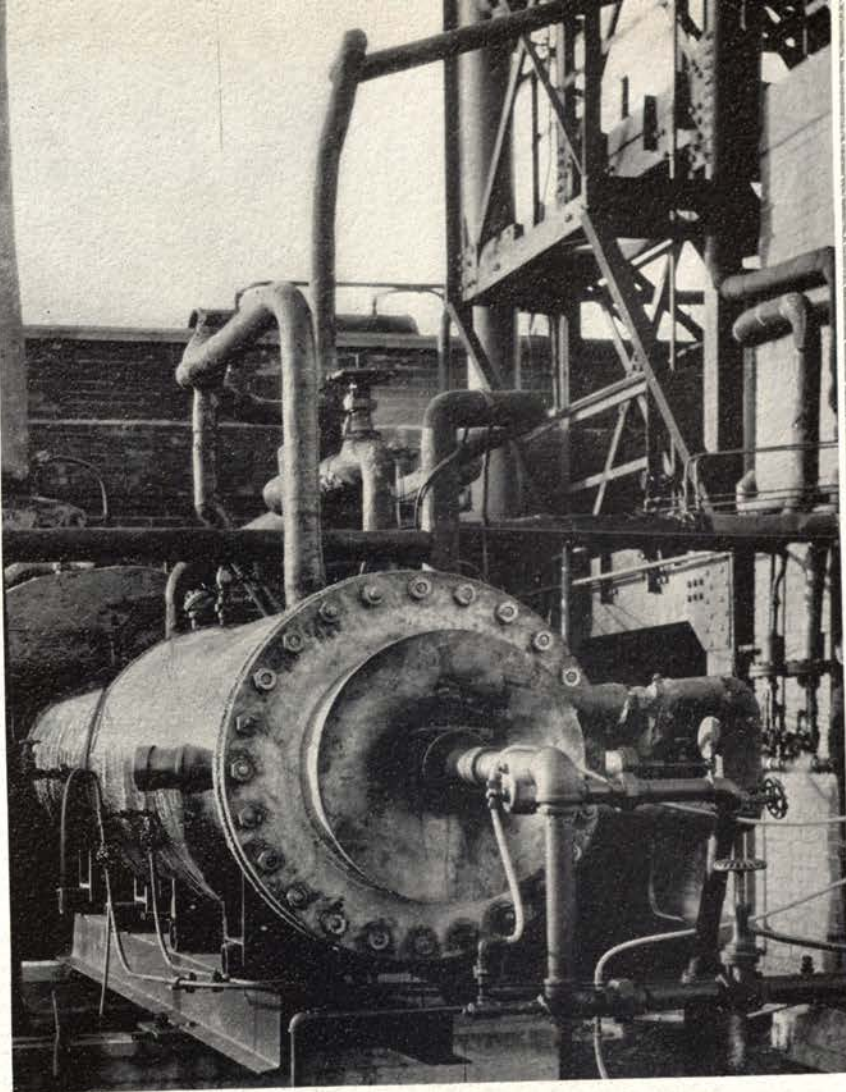


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THE TWENTIETH ST. PAT'S

The return of that jovial and genial character, St. Pat, for his twentieth visit, was greeted by a gay and carefree throng. The celebration started gathering momentum with the arrival of the many beautiful dates who were to adorn our campus during the ensuing three days of festivities. The first means of getting the occasion started were the Open House dances. The first dance was given at Jackling Gym with the Independents as hosts. From this dance the gay throng was forced to divide its time between the Pi Kappa Alpha dance at their Chapter House and a joint dance given at the Pierce Pennant Tavern by the Lambda Chi's, Triangles, and Merciers. After a slight intermission the Kappa Sig's and the Sigma Pi's resumed activities with their dance ending the first evening of the celebration.

Then came the arrival of that jovial character, St. Pat. With his entourage he was ushered to Parker Hall, where, with fitting eloquence, he delivered his address. He then knighted those of his loyal subjects who had faithfully struggled through the halls of learning for the preceding four years.

The shadows of night brought forth the long awaited costume ball. Here in Jackling Gym, now a palace of wonderland, to the scintillating strains of Henry Busse and his orchestra, the merrymakers were swept into a maze. The colorful and varied costumes represented peoples from the four corners of the globe.

At the stroke of twelve, preceded by his strong and trusted guards who cleared a path through the jubilant throng, St. Pat entered his court to the strains of "Wearing of the Green." Following St. Pat came the retiring queen, Miss Mickey Coffman, wearing the crown which she had so gracefully and proudly worn during her reign. Next came the court of beautiful and alluring maids of honor, Miss Jane Wright, Miss Naomi Berwick, Miss Mary Katherine Williams, Miss Dorothy Warttig, Miss Ruth Brown, Miss Imogene Hinsch, Miss Nell Lucille Parker, Miss Vance Thomure, and Miss Sybil Powell, accompanied by their respective escorts.

Preceded by lovely little flower girls and amid thunderous and well wished applause came the new queen, the beautiful and charming Miss Dorothy Fort. At the foot of the throne she was crowned the twentieth Queen of Love and Beauty, to reign with graciousness over the loyal subjects with the Patron Saint.

Then with the rapidity known only to moments of pleasure, the gay throng found Saturday and the closing formal dance at hand. This fitting close was preceded by the customary formal dinners at the various fraternities about the campus.

Here, amid subdued music and softened lights, the romancers were preparing for a more definite farewell which must come on the morrow. Hearts were beating just a little faster, as the merry couples glided to the melodic strains which were soon to fade and live again as memories.

ST. PATRICK



MR. F. W. ARNOLD, JR.

THE QUEEN



MISS DOROTHY FORT



MARY KATHERINE WILLIAMS
Mexico, Mo.
Pi Kappa Alpha Queen



DOROTHY WARTTIG
St. Louis, Mo.
Lambda Chi Alpha Queen



JANE WRIGHT
St. Louis, Mo.
Sigma Pi Queen



VANCE THOMURE
Bonne Terre, Mo.
Kappa Sigma Queen



SYBIL POWELL
Rolla, Mo.
Mercier Queen



RUTH BROWN
Knoxville, Mo.
Triangle Queen



IMOGENE HINSCH
Rolla, Mo.
Independent Queen



NELL LUCILLE PARKER
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Sigma Nu Queen



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Rolla, Mo.
Kappa Alpha Queen



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THIS'N AND THAT'N

After playing dead and laying dormant, even though infested by summer school students, the old school and the old town perk up a little as the Frisco does a "Mickey Mouse" stop at the station, and the students, both new and old, fall, stagger, and get poured off.

Most of the students were back and ready for action when the freshmen enrolled, but they were sadly disappointed. All the excitement they got they made themselves, for the freshmen ran wild all over town at any time of night undisturbed by the lily bearing sophs. The faculty is turning soft and the sophs are following by donning their lace panties and playing hide and seek, fruit basket-upset with the freshmen. And, so, the ruin of a good tradition and the making of a bunch of sissies for engineers.

Then after the fraternities cut each others' throats for their share of the freshman class and hung as many buttons as the old high pressure would do for them, Coach Grant called for men, or boys, to make him a football team. So instead of getting a lot of gab from the upper classmen they got beat down by those from other schools.



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Books and sports can not claim all of one's time in this joint, on account of the dances, etc., which do break the monotony.

The St. Pat's Board started off with a dance during the first week of school, and then the fraternities took it over by giving their pledge dances.

Then right in the middle of things we find a tough freshman. Now, who would have thought anything like this would happen after the faculty stopped the freshman week activities? He wore his sack and showed the boys he *could* take it, so maybe there is one engineer in the heap after all.

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Next we run right into the middle of Homecoming. Many of the old alumni came back to roost or roast as the case may be, and we are afraid a good time was had by all, even if the football team didn't have such good luck. Their luck held out, and when they went to St. Louis the same thing happened. We lost.

Thanksgiving, and everybody leaves Rolla for home, turkey, and the one and only. *Only what?*

But, when the boys get back they find the middle third of the coaching staff has taken unto himself a lawfully wedded wife. From rumors that have been running about, she is a very pretty blonde school teacher. Oh, well, birds of a feather.

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Wait a minute, we are getting ahead of ourselves. We forgot to make mention of the mid-semester headaches that came out of the raw. Some celebrated their good grades while others drowned their sorrows over the bad ones, and still others just put on a regular week end. Anyway, this was to be expected, so no one was surprised or apparently displeased, except those with the headaches.

Well, as we read on down the program we find that shortly after the Thanksgiving smoke cleared away, a fog arose around here by the starting up of the various Christmas dances, formal and otherwise. Each one of the houses held their dance in succession according to the dates given them. Some were wet, some were dry, some were just damp, and some were just dances.

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So then we come right up to the Christmas let down. That is, if you weren't letting down or letting be all year. What we mean to say is that everybody goes home to spend a few days and sit around hoping the family will get real generous and hand out something very useful, mainly in the form of checks, so that the best girl's family won't ask you to buy a new sofa and a load of wood for the fireplace before you go back to school.

Well, since this is supposed to be covering happenings of the school, we will get back to Rolla.

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Christmas over, New Year's headaches gone and we wake up to find ourselves looking into the middle of first semester finals. Not only were we looking into the middle of the exams, but the Profs were looking into the middle of us. Some of these Profs around here seem to get a big kick out of giving quips nobody can work. Especially King Jackson, the lion hearted, who is getting so much in the habit of giving blanket incompletes in P. P. that everybody expects it and just gets ready for a four-hour quip in April rather than a final when they are supposed to have one.

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Rollamo, our sincere thanks for their
cooperation. . . To the recipients of
these books, the wish that they may
feel the same pride in ownership that
we do in having printed them

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After the quip headaches were all over the school got together and had a good time and a few legal headaches at the Monte Carlo dance sponsored by the St. Pat's Board. All the big gamblers gathered and tried to break the bank. We believe that the Board would have been money ahead if they hadn't hired the band until intermission, because there were very few people dancing. Everybody was gambling and trying to win a prize for being the luckiest gambler. However, after intermission, when the prizes were auctioned off to the highest bidder, everybody joined in and enjoyed the music.

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Everything then remained very quiet for a while, and then the St. Pat's Board gives their final dance before St. Pat's—the old raffle dance. It always goes big, because there are lots of prizes, lots of gyms, and everybody in general has a good time at least hoping they will win something and get a little return on their investment.

The next, and the biggest thing of the year, of course, St. Pat's. Since most of the "tankers" got well "tanked," there would be no percentage in mentioning anything further, so with this I will stop this rambling and ask your forgiveness, if you stuck this out to the finish.

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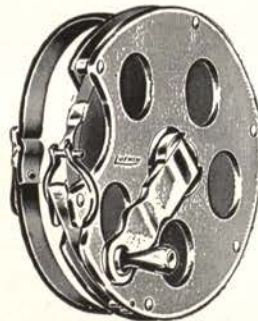
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ACKNOWLEDGMENTS

We, the 1935 Rollamo Board, extend our most sincere thanks and appreciation to the faculty, commercial companies and all others who have given us valuable suggestions and aid in publishing this Rollamo.



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